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Institute Report No. 443



A Carcinogenicity Bioassay of Isobutyl 2-Cyanoacrylate (IBC) in Fischer-344 Rats -- Final Report

Larry D. Brown, DVM, LTC, VC Paul W. Mellick, DVM, COL, VC Catherine D. Smith, DVM, MAJ, VC and Don W. Korte, Jr., PhD, LTC, MSC

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January, 1990

Toxicology Series: 187



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A Carcinogenicity Bioassay of Isobutyl 2-Cyanoacrylate (IBC) in Fischer-344 Rats -- Final Report (Toxicology Series 187)-- Brown et al.

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This research was conducted in compliance with the "Guide for the Care and Use of Laboratory Animals," NIH Publication No. 85-23, as prepared by the Institute of Laboratory Animal Resources, National Research Council.

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Donald G. Corby

COL, MC

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sexes. In addition to the masses and the more permanent sequelae of the

surgical procedure (xyphoid protuberance, corneal opacity), the animals

19 (cont.) presented with a variety of transitory clinical signs sporadically throughout the first and second year. These signs were observed in all dose groups, and could not be attributed to compound administration. The weight gain of the two IBC treatment groups was comparable to that recorded for the control group.

Three hundred five animals remained on study at the start of the second year. During the second year, 118 animals died or were sacrificed Twenty-one were unscheduled deaths and 97 were unscheduled prematurely. sacrifices. At the end of the second year, the 187 remaining animals were sacrificed. All animals (118 unscheduled and 187 scheduled) were evaluated by necropsy during the second year. One hundred eighty-four of the animals that received the IBC had fibrotic adhesions between the liver and the omentum, peritoneal membrane, diaphragm, stomach, skin, and/or intestine. lesions were characterized histologically as foreign body granulomatous reactions. Thirty-one rats treated with IBC developed sarcomas during the The first sarcoma was detected on day 399 after intra-abdominal second year. administration of the test material. Twenty-one of 31 animals with sarcoma died or were sacrificed in a moribund condition, while 10 animals with sarcoma survived until terminal sacrifice. Twenty-seven of 31 animals with sarcoma had grossly detectable masses at necropsy. Four sarcomas were detected only by microscopic examination. The liver was the most frequently affected organ' (27 of 31 animals had lesions in the liver). Four IBC-treated rats (2 lowdose males and 2 high-dose females) had hepatocellular carcinomas of the liver, while controls had none. F-344 leukemia or large granular lymphocyte leukemia (LGLL) occurred in 62 animals distributed among all groups, including controls. Solid-state carcinogenesis mechanisms are the most probable cause for the sarcomas, but humans, unlike rodents, fail to elicit a solid-state carcinogenesis effect. The incidence of hepatocellular carcinomas was twice that reported for rats of the same strain and age, which provides reason for concern. However, the incidence of this tumor was not statistically significant and there was no dose-response pattern by sex. All other gross or histopathological findings were considered incidental to IBC treatment, or were sequelae of the surgical procedure.

Results of this study indicate that the presence of IBC in the abdominal cavity had no effect on survival, weight gain, or the clinical condition of F-344 rats during the second year following its implantation. IBC did produce sarcomas in the abdomen of 16% of the animals. The sarcomas were attributed to a solid-state effect which is not present in man. A nonstatistically significant increase in hepatocellular carcinomas was observed in 4 IBC-treated rats but there was no clear evidence that this could be attributed to the IBC implants.

ABSTRACT

This report covers the results from the second year of a two-year carcinogenicity bioassay of the tissue adhesive, isobutyl 2-cyanoacrylate (IBC). Four hundred seven 6-weekold Fischer-344 rats were randomized into three groups (control, 10 μ l IBC, and 100 μ l IBC), each group containing both male and female animals. The IBC was administered by surgical implantation of the liquid monomer directly onto the ventral capsule of the liver. The monomer was allowed to polymerize before two-layer closure of the abdominal incision. Control animals received 100 µl of isotonic saline, also by surgical implantation. All animals were examined daily, and weighed and palpated monthly. A doserelated increase in the incidence of clinically observed intra-abdominal masses was evident among IBC-treated animals of both sexes. In addition to the masses and the more permanent sequelae of the surgical procedure (xyphoid protuberance, corneal opacity), the animals presented with a variety of transitory clinical signs sporadically throughout the first and second year. These signs were observed in all dose groups, and could not be attributed to compound administration. The weight gain of the two IBC treatment groups was comparable to that recorded for the control group.

Three hundred five animals remained on study at the start of the second year. During the second year, 118 animals died or were sacrificed prematurely. Twenty-one were unscheduled deaths and 97 were unscheduled sacrifices. At the end of the second year, the 187 remaining animals were sacrificed. All animals (118 unscheduled and 187 scheduled) were evaluated by necropsy during the second year. One hundred eighty-four of the animals that received the IBC had fibrotic adhesions between the liver and the omentum, peritoneal membrane, diaphragm, stomach, skin, and/or intestine. These lesions were characterized histologically as foreign body granulomatous reactions. Thirty-one rats treated with IBC developed sarcomas during the second year. The first sarcoma was detected on day 399 after intraabdominal administration of the test material. Twenty-one of 31 animals with sarcoma died or were sacrificed in a moribund condition, while 10 animals with sarcoma survived until terminal sacrifice. Twenty-seven of 31 animals with sarcoma had grossly detectable masses at necropsy. Four sarcomas were detected only by microscopic examination. The liver was the most frequently affected organ (27 of 31 animals had lesions in the liver). Four IBC-treated rats (2 low-dose males and 2 high-dose females) had hepatocellular carcinomas of the liver, while controls had none. F-344 leukemia or large granular lymphocyte leukemia (LGLL) occurred in 62 animals distributed among all groups, including controls.

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Key Words: Chronic Toxicity, Isobutyl 2-Cyanoacrylate, IBC, Bucrylate®, Mammalian Toxicology, Tissue Adhesive, Carcinogenicity Bioassay, Rat

PREFACE

TYPE REPORT: Chronic Carcinogenicity Bioassay GLP Final

Report

TESTING FACILITY:

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US Army Institute of Dental Research

Washington, D.C. 20307-5400

Project Officer: Eric S. Koppelman, COL, DC

PROJECT/WORK UNIT/APC: Tissue Adhesive Project,

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GLP STUDY NUMBER: 83009

STUDY DIRECTOR: LTC Don W. Korte, Jr., PhD, MSC

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PRINCIPAL INVESTIGATOR: LTC Larry D. Brown, DVM, MPVM, VC

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MAJ Catherine D. Smith, DVM, VC

Diplomate, ACVP

TOXSYS™/DATA MANAGER: Yvonne C. LeTellier, BS

REPORT AND DATA MANAGEMENT:

A copy of the final report, study protocol, retired SOPs, raw data, analytical, stability, and purity data of the test compound, tissues, microslides, and an aliquot of the test compound will be retained in the LAIR Archives.

TEST SUBSTANCE: Isobutyl 2-Cyanoacrylate (IBC), Bucrylate®

INCLUSIVE STUDY DATES (YEAR 2): 30 January 1985 -

14 February 1986

OBJECTIVE: The objective of this study was to evaluate the carcinogenic/tumorigenic potential of isobutyl 2-cyanoacrylate in male and female Fischer-344 rats subjected to lifetime (2-year) exposure to the

implanted test material.

ACKNOWLEDGMENTS

Richard A. Spieler, RLAT (AALAS), SGT Thomas W. Johnson, and Nancy J. Smith assisted in the study. SSG James D. Justus and staff provided animal and facility management. Dianna B. Johnson provided office management and secretarial assistance for this study and preparation of the report. LTC William G. Rodkey, DVM, Diplomate, American College of Veterinary Surgeons, COL William B. Carpenter, DDS, and LTC Eric S. Koppelman, DDS, performed the requisite surgery in support of this project. Histology technicians were Lucille Cote and Marge Henderson. CPT Dan Brogdon, DVM, Ocular Hazards Division, was the veterinary ophthalmology consultant to this study. CPT Gary M. Zaucha, DVM, collated the final report. CPT Robert E. Harris, DVM, provided assistance with collating the final report.

SIGNATURES OF PRINCIPAL SCIENTISTS AND MANAGERS INVOLVED IN THE STUDY

We, the undersigned, declare that the GLP Study 83009 was performed under our supervision, according to the procedures described herein, and that this report is an accurate record of the results obtained.

DON W. KORTE, LTC, MSC Study Director Conrad R. WHEELER, PhD / DATE DAC Analytical Chemist

Rany 1. Brown
LARRY D. BROWN, DVM / DATE

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DEPARTMENT OF THE ARMY

LETTERMAN ARMY INSTITUTE OF RESEARCH
PRESIDIO OF SAN FRANCISCO, CALIFORNIA 94129-6800

REPLY TO ATTENTION OF:

SGRD-ULZ-QA

19 January 1990

MEMORANDUM FOR RECORD

SUBJECT: GLP Compliance for GLP Study 83009

1. This is to certify that in relation to LAIR GLP Study 83009 the following inspections were made:

23 August 1983 - Protocol Review 17 January 1984 - Weighing

23 January 1984 - Weighing/Dosing

17 February 1984 - Observation/Weighing

26 March 1984 - Observation 17 May 1984 - Observation

Ø5 July 1984 - Observation/Weighing

Ø2 August 1984 - Weighing

29 January 1986 - Observation/Necropsy

2. The institute report entitled "A Carcinogenicity Bioassay of Isobutyl 2-Cyanoacrylate (IBC) in Fischer-344 Rats--Final Report," Toxicology Series 187, was audited on 2 January 1990.

Carolyn M. Kewis

CAROLYN M. LEWIS

Diplomate, American Board of

Toxicology

Quality Assurance Auditor

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A Carcinogenicity Bioassay of Isobutyl 2-Cyanoacrylate (IBC) in Fischer-344 Rats -- Final Report--Brown et al.

INTRODUCTION

Isobutyl 2-cyanoacrylate (IBC) is being evaluated by the U.S. Army Medical Department as a tissue adhesive for use in sutureless wound closure, oral and maxillofacial surgery, and in other surgical procedures. The use of this modality could provide a time-saving and sometimes life-saving dimension to the management of combat wounds. The U.S. Army Institute of Dental Research (USAIDR) has been assigned the mission of evaluating the therapeutic potential of IBC. As part of their mandate, USAIDR has tasked the Toxicology Branch, Letterman Army Institute of Research (LAIR), to evaluate IBC in a chronic carcinogenicity bioassay.

Results from the first year of the study indicate that IBC has no effect on survival, weight gain, or the clinical condition of rats during the first year following its implantation. The only gross or histopathological finding observed in the first year that was attributed to the IBC treatment was the presence of adhesions and a granulomatous reaction of the liver and those adjacent organs that came in contact with the IBC. No tumors were observed during the first year that could be attributed to IBC treatment (1). This report will review salient features of the first year and address findings that occurred during the second year of this study.

Objective of Study

The objective of this study was to evaluate the carcinogenic/tumorigenic potential of isobutyl 2-cyanoacrylate in male and female Fischer-344 rats subjected to lifetime (2-year) exposure of the implanted test material.

MATERIALS

Test Substance

Chemical Name: Isobutyl 2-cyanoacrylate (IBC),

Bucrylate®

Chemical Abstract Service Registry No.: 1069-55-2

Molecular Formula: C₈H₁₁NO₂

Molecular Structure:

Additional information on the test substance is presented in Appendix A.

Animal Data

Two hundred nine male and 210 female 4-week-old Fischer-344 (CDF) rats were received for this study on 11 Jan 84 from Charles River Breeding Laboratories, Inc., Wilmington, MA. They were identified individually with ear tags numbered 84D00001 to 84D00209 (inclusive) for the males and 84D00226 to 84D00435 (inclusive) for the females. Four males and 4 females were selected randomly for quality control necropsy evaluation at receipt. The animal weights on the day following receipt (12 Jan 84) ranged from 30-57 g. During quarantine, three underweight females and one maloccluded male were submitted to necropsy on 20 Jan 84. Additional animal data are presented in Appendix B.

Husbandry

Animals used in this study were housed at LAIR in the Toxicology Suite, a restricted access facility. Rats were caged individually in stainless steel wire-mesh cages in racks equipped with automatically flushing dumptanks. No bedding was used in any of the cages. The diet, fed ad libitum, consisted of Purina Certified Rodent Chow® Diet 5002 (Ralston Purina Company, St. Louis, MO). Tap water was provided by automatic water valves on a central line. Water was analyzed quarterly for impurities, bacteria, physical and chemical properties, organic residues, pesticides, and heavy metals. The animal room temperature and relative humidity were continuously recorded. The room was maintained at temperatures ranging from 20.0°C to 25.5°C, with a relative humidity range of 35% to 60%, except for short periods (spikes) during which cleaning of the room altered the relative humidity, and on six occasions when increases up to 70-86% occurred for 4-14 hours due to steam outages or servicing of the ventilation system fans. The photoperiod of 12 hours of fluorescent light per day was electronically controlled. Air changes, cage size, and husbandry conformed to National Research Council Institute of Laboratory Animal Resources standards (2). The LAIR animal facility is

accredited by the American Association for Accredited Laboratory Animal Care.

METHODS

This study was performed in accordance with the protocol, applicable amendments, and cited operating procedures including: LAIR Standard Operating Procedure OP-STX-81, "Chronic Bucrylate Bioassay Procedures within Toxicology GLP Suite and Administrative Areas" (3); OP-STX-73, "Chronic Carcinogen Bioassay" (4); and FDA Nonclinical Laboratory Studies, Good Laboratory Practice Regulations (5).

Group Assignment/Acclimation

Study rats were randomized on 19 January 1984 into two experimental dose groups of 68 males and 68 females each, and a saline control group of 68 males and 67 females.

Allocation was accomplished by using the Beckman TOXSYSTM Animal Allocation Program (Beckman Instruments, Inc., Somerset, NJ). The animals were acclimated for 12 days before the day of dosing. During this period they were observed daily for signs of illness.

Dosage Levels

The following test doses were administered: high-dose group, 100 μ l IBC/animal; low-dose group, 10 μ l IBC/animal; and vehicle control group, 100 μ l saline/animal.

Preparation of Compound

Bucrylate® IBC tissue adhesive (lot 929-252, Ethicon, Inc., Somerville, NJ) was received from the sponsor on 10 January 1984 as 750 0.5 ml scored ampules in individual overwrap sterile bags. The IBC required no preparation prior to implantation. It was stored at LAIR at room temperature under darkness. Dosing of control animals was performed with commercial sterile isotonic (0.9%) saline (Lot No. 56-329-FD-05, expiration date 1 Sep 86, Abbott Labs, Chicago, IL).

Chemical Analysis of IBC

Ethicon, Inc., provided data on infrared, chromatographic, and chemical analysis of the IBC (Appendix A). Lot 929-252 contained 99.9% (w/w) total monomer. Before dosing, the LAIR Analytical Chemistry Group verified the identity of the IBC by IR spectroscopy, confirmed the purity

by gas chromatography, and demonstrated the stability of the IBC during the dosing period (Appendix A).

Test Procedures

The fixed volume of neat IBC or saline each animal received was based upon its assigned dosage group, and was administered directly onto the ventral (inferior surface) capsule of the liver. High-dose animals received 100 μl of IBC, low-dose animals received 10 μl of IBC, and control animals received 100 μl of saline. Rats were 6 weeks of age at dosing. Since the surgical survival rate for implantation of this compound was unknown, all animals, regardless of size, were subjected to the surgical procedure and dosed to ensure that sufficient numbers would be available for inclusion in the chronic phase of the study. Body weights at dosing ranged from 29 g to 123 g, with the mean male and female weights at 94.0 g and 73.8 g, respectively.

The test compound was implanted under sterile conditions in the LAIR Operating Room Suite on 23 and 24 Jan 84. surgical laparotomy implantation procedure was performed under xylazine/ketamine anesthesia. Following anesthesia, surgical preparation, and midline incision, the animal's liver was exposed by "tenting" the abdominal wall with either ophthalmic retractors or tissue forceps. The IBC was applied to the ventral capsule of the liver, usually the caudate lobe, by using either a sterile tip 100 µl or 10 µl fixed volume Eppendorf micropipette. The IBC was then allowed to polymerize for 2-3 minutes before closure. All pipettes used in the study were shown to be accurate within ± 2%. A twolayer closure of bioresorbable 4-0 Vicryl® (Ethicon, Inc.) and skin staples or skin clips was used. After the animals recovered to sternal recumbency, they were returned to the Toxicology Suite. A complete surgical report is provided in Appendix C.

Clinical Observations

On the day of dosing and during the following 2-week period, animals were checked intermittently throughout the day. During the first postoperative week, 25 animals were removed from the study due to underweight condition and/or complications. Three hundred eighty-two animals recovered satisfactorily and remained on study as of 1 Feb 84. After the animals were stabilized, observations for mortality and signs of toxicity or illness were reduced in frequency to twice daily. An observation was performed according to the following procedure: (a) each morning all animals were observed closely for signs of toxicity or illness without

disturbing them in the cage; (b) once a week the animals (20% cf them per work day) were removed from their cages and observed; (c) animals were observed after being returned to their cages. A second "walk-through, live/dead check" observation was performed every afternoon with only significant observations recorded. Monthly, a more detailed clinical examination was performed, body weights were obtained, and the abdomens of all animals were gently palpated. These data were recorded electronically on a Beckman TOXSYSTM Data Collection Terminal. Daily observations/clinical signs were recorded on written records and significant changes entered into the TOXSYS workstation. TOXSYS software on the LAIR Data General Computers, Models MV8000 and C330, was used to analyze clinical signs and body weight data.

Pathological Examinations

Animals that were moribund at the time of clinical examination were euthanized by pentobarbital overdose, exsanguinated by axillary incision, and necropsied. During the second year, 21 animals died unexpectedly (unscheduled), and 97 unscheduled sacrifices were required. Additionally, 187 animals were submitted for sacrifice at the end of the second year, 27 Jan - 14 Feb 1986. Gross necropsy examinations were performed, and tissues were collected from each animal in accordance with LAIR OP-STX-32, "General Pathology Procedures", OP-PSG-7, "Necropsy Procedure--Gross Examination of Small Laboratory Animals", and OP-PSG-12, "Histopathology--Trimming of Rodent Tissues."

The pathologic evaluation consisted of gross and microscopic examination of major organs/tissues and all gross lesions from sacrificed animals and animals found dead. following organs/tissues were examined microscopically: eyes and lens, skin, subcutaneous tissue, mammary gland, brain (4 levels: anterior cerebral, midcerebral, midbrain, cerebellum), middle ears, auditory canal, sebaceous gland, trachea, lungs, nasal region, sternum, heart, aorta, salivary glands (parotid, submaxillary, sublingual), Harderian lacrimal and intraorbital lacrimal glands, exorbital lacrimal glands, liver (2-4 sections of various lobes), pancreas, esophagus, stomach, duodenum, jejunum, ileum, cecum, colon, rectum, kidneys, urinary bladder, accessory sex glands (male only--prostate, seminal vesicle, coagulating gland, epididymis), testes/ovaries, uterus (horns and body), skeletal muscle (2 sections, longitudinal and cross), sciatic nerve, tongue, pituitary, thyroid/parathyroid, adrenals, thymus, spleen (2 cross sections), mesenteric lymph nodes, femur (bone marrow), and vertebrae with spinal cord (3

sections: cervical, thoracic, and lumbar). These tissues were preserved in 10% buffered formalin, trimmed, embedded in paraffin, sectioned, and stained with hematoxylin and eosin prior to microscopic examination. Necropsy data were recorded and entered into a XybionTM (Xybion Medical Systems, Cedar Knoll, NJ) computerized data acquisition program designed for a DEC VAXTM 750 computer. Microscopic findings were entered into the computer directly as microslides were read. Since the Xybion animal-numbering system was incompatible with the TOXSYS numbering system used during the "in-life" phases of the study, the animals had to be renumbered by the Pathology Section as they were necropsied in order to enter them into the Xybion Pathology Data System. A cross reference of animal identification numbers is presented in Appendix J.

Statistical Analyses

Statistical analyses were performed on the study results. TOXSYS System programs were used to determine the group mean animal body weights (EDS002) and the frequencies of clinical signs (EDS057-61). The Xybion Pathology Data System was used to generate the pathology raw data listings, summary pathology reports, lesion frequency data, and terminal body weights (group mean, standard deviation, Bartlett's Test, ANOVA, and Dunnett's Test). The incidence of microscopic lesions for each test group were compared to the control group using the Kolmogorov-Smirnov two-tailed test. The 5% (p \leq 0.05) level of significance was used for all tests.

Duration of Study

The "in-life" period for the second year of the study ran from 30 Jan 85 until 14 Feb 86, when the terminal sacrifice was completed. Appendix D is a complete historical listing of study events.

Changes/Deviations from Protocol

Performance of this study was in accordance with the protocol and applicable amendments.

Storage of Raw Data and Final Report

A copy of the final report, study protocol and amendments, raw data, relevant SOPs, analytical data for the test compound, and an aliquot of the test compound will be retained in the LAIR Archives.

RESULTS

Mortality

One hundred eighteen animals died or were sacrificed prematurely during the second year of the study (controls, 13 males, 22 females; low dose, 16 males, 19 females; high dose, 27 males, 21 females). Of these, 21 unscheduled deaths were recorded and 97 animals were euthanized because they were moribund, had infections, had lost weight, or were in poor condition (Tables 1a-1d).

TABLE 1a

Listing of Unscheduled Deaths/Euthanized* Animals

1 Feb - 30 Apr 85

Toxicolog Animal No 84D00-	-	Clinical Outcome	Sex	Dose Group
376	13 Feb 85	Died in cage	F	High IBC
157	26 Feb 85	Died in cage	M	High IBC
296	15 Mar 85	Sacrificed, large** intra-abdominal mass	F	High IBC
170	23 Apr 85	Sacrificed, alopecia and skin scabbing/scaling (infection control)	M	Control
428	23 Apr 85	Sacrificed, perivaginal fistula & discharge	F	Control

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1b

Listing of Unscheduled Deaths/Euthanized* Animals
1 May - 31 Jul 85

Toxicology Animal No. 84D00-	I	Date	Clinical Outcome	Sex	Dose Group
422	7	May 85	Sacrificed, severe dehydration	F	Low IBC
156	9	May 85	Died in cage	М	High IBC
423	10	May 85	Sacrificed, large** intra-abdominal mass	F	High IBC
181	10	May 85	Sacrificed, large intra-abdominal mass	M	High IBC
109	19	May 85	Sacrificed, large intra-abdominal mass	M	High IBC
384	31	May 85	Sacrificed, skin lesions neck (infection control)	F	Control
129	5	Jun 85	Large intra-abdominal mass	M	High IBC
275	14	Jun 85	Large intra-abdominal mass	F	High IBC
326	1	Jul 85	Died in cage	F	Low IBC
431	8	Jul 85	Large intra-abdominal mass	F	High IBC
430	9	Jul 85	Died in cage	F	High IBC
415	17	Jul 85	Pallor with palpable splenic mass	F	Low IBC
193	21	Jul 85	Died in cage	M	High IBC
091 :	30	Jul 85	Died in cage	M	High IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1c

Listing of Unscheduled Deaths/Euthanized* Animals
1 Aug - 31 Oct 85

Toxicology Animal No. 84D00-		Date	Clinical Outcome	Sex	Dose Group
099	1	Aug 85	Large** intra-abdominal mass	М	High IBC
149	1	Aug 85	Emaciated and dehydrated	М	Low IBC
301	1	Aug 85	Malocclusion	F	Control
191	1	Aug 85	Infected subcutaneous mass	M	High IBC
286	2	Aug 85	Pallor with palpable abdominal mass	F	High IBC
388	2	Aug 85	Pallor with palpable abdominal mass, died in cage	F	Control
147	16	Aug 85	Large subcutaneous perihumeral mass	M	Low IBC
407	16	5 Aug 85	Large subcutaneous mass on thoracic wall	F	Low IBC
279	20) Aug 85	Marked weight loss and perianal staining	F	Low IBC
081	28	Aug 85	Large subcutaneous mass	M	High IBC
426	28	Aug 85	Pallor with weight loss	F	Low IBC
074	30	Aug 85	Large intra-abdominal mass with excessive weight loss		High IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1c (cont.)

Listing of Unscheduled Deaths/Euthanized* Animals

1 Aug - 31 Oct 85

Toxicolog Animal No 84D00-		Clinical Outcome	Sex	Dose Group
102	30 Aug 85	Large** intra-abdominal mass and pallor	М	Low IBC
108	30 Aug 85	Skin mass over maxilla	M	High IBC
151	30 Aug 85	Pallor with large intra-abdominal mass	M	High IBC
327	30 Aug 85	Large intra-abdominal mass	F	High IBC
338	30 Aug 85	Large intra-abdominal mass	F	High IBC
180	9 Sep 85	Large intra-abdominal mass with weight loss	M	Low IBC
288	9 Sep 85	Emaciated	F	Control
363	13 Sep 85	Oral discharge	F	Low IBC
389	13 Sep 85	Cardiac murmur with weight loss	F	Control
032	19 Sep 85	Large subcutaneous mass	M	Control
404	23 Sep 85	Died in cage	F	Control
260	25 Sep 85	Enteritis with weight loss	F	Low IBC
059	26 Sep 85	Large subcutaneous mass	M	Low IBC
095	26 Sep 85	Large intra-abdominal mass	М	High IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1c (cont.)

Listing of Unscheduled Deaths/Euthanized* Animals
1 Aug - 31 Oct 85

Toxicolog Animal No 84D00-		Clinical Outcome	Sex	Dose Group
104	26 Sep 85	Large** intra-abdominal mass	М	High IBC
124	26 Sep 85	Large splenic mass	M	Control
266	3 Oct 85	Large subcutaneous mass on neck	F	Control
069	3 Oct 85	Large intra-abdominal mass with weight loss	М	High IBC
368	8 Oct 85	Severe pallor from hemorrhagic enteritis	F	Control
199	16 Oct 85	Deteriorated condition and large palpable intra-abdominal mass	M	High IBC
278	17 Oct 85	Large subcutaneous mass over humerus	ਸੂ	Control
166	17 Oct 85	Large subcutaneous mass	M	Control
084	24 Oct 85	Pallor, weak, depressed	M	Low IBC
080	24 Oct 85	Died in cage	M	High IBC
203	24 Oct 85	Pallor, large intra-abdominal mass	M	Low IBC
424	25 Oct 85	Weight loss, dehydrated, depressed	F	High IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1d

Listing of Unscheduled Deaths/Euthanized* Animals
1 Nov 85 - 14 Feb 86

Toxicology Animal No. 84D00-		Date	Clinical Outcome	Sex	Dose Group
139	5	Nov 85	Large** intra-abdominal mass with weight loss	M	High IBC
416	5	Nov 85	Large intra-abdominal mass with deterioration	F	High IBC
164	8	Nov 85	Weight loss	M	Control
320	15	Nov 85	Large intra-abdominal mass, anorexic	F	High IBC
390	15	Nov 85	Anorexic, pallor	F	Control
146	18	Nov 85	Died in cage	М	Low IBC
343	19	Nov 85	Large intra-abdominal mass	F	High IBC
367	19	Nov 85	Large mass lower abdomen	F	High IBC
414	19	Nov 85	Large subcutaneous mass	F	Control
273	18	8 Nov 85	Weight loss, palpable intra-abdominal mass	F	High IBC
322	23	3 Nov 85	Died in cage after monthly palpation, large splenic mass	F	Low IBC
365	23	8 Nov 85	Splenic mass, died in cage	F	Control
182	26	Nov 85	Large intra-abdominal mass, pallor	M	Low IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1d (cont.)

Listing of Unscheduled Deaths/Euthanized* Animals
1 Nov 85 - 14 Feb 86

Toxicolog Animal No 84D00-		Clinical Outcome	Sex	Dose Group
290	26 Nov 85	Pallor	F	Control
036	3 Dec 85	Anorexic, weight loss	M	Control
334	3 Dec 85	Pallor and emaciated	M	Control
392	3 Dec 85	Emaciated and pallor	F	Low IBC
041	11 Dec 85	Emaciated	M	Low IBC
062	11 Dec 85	Large** intra-abdominal mass, rapid weight loss	M	High IBC
030	18 Dec 85	Anorexic, emaciated	M	Control
033	19 Dec 85	Died in cage	M	Low IBC
070	23 Dec 85	Rapid weight loss	M	Low IBC
051	23 Dec 85	Weight loss	M	Low IBC
359	23 Dec 85	Died in cage	F	Control
200	24 Dec 85	Weight loss, circumoral staining	M	Control
399	29 Dec 85	Anorexic, emaciated, skin pallor	F	Low IBC
078	3 Jan 86	Emaciated, pallor, large intra-abdominal mass	М	High IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1d (cont.)

Listing of Unscheduled Deaths/Euthanized* Animals

1 Nov 85 - 14 Feb 86

Toxicology Animal No. 84D00-	Date	Clinical Outcome	Sex	Dose Group
114 3	Jan 86	Pallor, emaciated, large** intra-abdominal mass	M	High IBC
185 3	Jan 86	Large intra-abdominal mass, pallor	M	High IBC
328 3	Jan 86	Pallor and emaciated	F	Low IBC
060 9	Jan 86	Large intra-abdominal mass	M	Low IBC
289 11	Jan 86	Died in cage	F	Low IBC
257 13	Jan 86	Large subcutaneous tumor	F	Low IBC
324 13	Jan 86	Acute weight loss	F	Control
345 13	Jan 86	Emaciated	F	Low IBC
089 14	Jan 86	Died in cage	M	High IBC
100 14	Jan 86	Convulsed and died in cage	M	High IBC
120 14	Jan 86	Moribund	M	Control
117 14	Jan 86	Moribund	M	Control
053 16	5 Jan 86	Two large intra-abdominal masses	M	Low IBC
039 16	Jan 86	Weight loss	M	Control
198 16	Jan 86	Large intra-abdominal mass	М	Control

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1d (cont.)

Listing of Unscheduled Deaths/Euthanized* Animals

1 Nov 85 - 14 Feb 86

Toxicolo Animal N 84D00-		Date		Clinical Outcome	Sex	Dose Group
413	16	Jan	86	Subcutaneous swelling between anus and vulva, intra-abdominal mass	F	High IBC
280	17	Jan	86	Pallor, enlarged spleen	F	Control
356	17	Jan	86	Malocclusion, weight loss, intra-abdominal mass	F	High IBC
397	17	Jan	86	Pallor, enlarged spleen	F	Control
425	17	Jan	86	Deteriorated condition, hypothermic, with weight loss	F	Low IBC
418	17	Jan	86	Splenic and liver masses, hypothermic	F	Low IBC
346	21	Jan	86	Moribund	F	Low IBC
412	21	Jan	86	Died in cage	F	High IBC
172	22	Jan	86	Died in cage	М	High IBC
393	23	Jan	86	Deteriorated condition	F	High IBC
432	23	Jan	86	Died in cage	F	High IBC
115	24	Jan	86	Moribund	М	High IBC
096	27	Jan	86	Emaciated, hypothermic, severe respiratory problem	M	Low IBC

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

^{**}Large = ≥ 20 mm in diameter

TABLE 1d (cont.)

Listing of Unscheduled Deaths/Euthanized* Animals

1 Nov 85 - 14 Feb 86

Toxicology Animal No 84D00-		Clinical Outcome	Sex	Dose Group
361	29 Jan 86	Emaciated, intra-abdominal mass	F	Low IBC
179	29 Jan 86	Deteriorated condition	M	Control
302	3 Feb 86	Two intra-abdominal masses emaciated, pallor	, F	High IBC
330	7 Feb 86	Emaciated, pallor, perianal stain	F	Control
331	7 Feb 86	Splenic mass, pallor	F	Control
403	10 Feb 86	Emaciated, sudden onset conjunctivitis	F	Control

^{*} Animals were sacrificed to conserve tissues in face of imminent death, for infection control purposes, or for humane reasons.

Clinical Observations

A glossary of terms for clinical observations is presented in Appendix E. Individual clinical observation and body weight data are presented in Appendix F. The majority of animals gained or maintained body weight throughout the first 8 months of the second year of the study (observation periods 14-23). During the final 4 months (observation periods 24-27), slight decreases in group mean body weights were observed for treatment and control group males. Decreases were observed for the females only at terminal sacrifice (fasted body weight). Mean body weights of IBC-dosed and saline-treated control animals were comparable throughout the second year for both sexes. Tables 2 (male) and 3 (female) present mean monthly body weights by group.

Clinical signs closely duplicating those seen during the first year of the study (1) were observed throughout the second year. With the exception of clinically observed

masses, signs were generally routine, of minor consequence, and were distributed relatively equally among the treatment and control groups. Clinical sign categories observed during the second year included ocular abnormalities (179 of 305 animals affected), masses (145 of 305), skin/fur abnormalities (129 of 305), general signs (69 of 305), respiratory abnormalities (23 of 305), genitourinary abnormalities (14 of 305), behavioral aberrations (12 of 305), postoperative complications (5 of 305), and miscellaneous observations (21 ear tag reactions, 2 malocclusions, 1 cardiac irregularity).

With the exceptions of the masses, ocular abnormalities, and the few iatrogenic postoperative complications (xyphoid protuberance and abdominal/peritoneal fistula), clinical signs developed rapidly, and were relatively mild and of short duration. An incidence summary of clinical signs is presented in Table 4.

Group Mean Body Weights: Males Year Two of Two-Year IBC Carcinogenicity Bioassay*

Date	Observation	High Dose	Low Dose	Saline
	Period	IBC	IBC	Controls
14 Feb 85 14 Mar 85 11 Apr 85 9 May 85 6 Jun 85 2 Jul 85 1 Aug 85 29 Aug 85 24 Oct 85 24 Oct 85 21 Nov 85 19 Dec 85 16 Jan 86 27 Jan - 5 Feb 86	15 16 17 18 19 5 20 5 21 22 23 5 24 25 26 27	396.5 (50) 404.2 (49) 407.5 (49) 410.7 (49) 417.8 (45) 416.2 (45) 420.6 (43) 415.7 (40) 417.8 (37) 417.8 (33) 407.5 (31) 406.3 (30) 401.4 (25) 376.2 (23)	400.9 (55) 407.8 (55) 409.5 (55) 415.7 (55) 419.6 (55) 419.4 (55) 421.8 (55) 422.4 (53) 423.5 (51) 425.5 (50) 415.6 (47) 412.8 (45) 403.8 (41) 377.5 (39)	404.2 (57) 410.3 (57) 414.8 (57) 420.9 (56) 422.7 (56) 422.3 (56) 425.8 (56) 425.8 (56) 427.3 (56) 426.1 (55) 431.5 (53) 420.3 (52) 416.7 (50) 404.4 (47) 376.8 (44)

^{*} Data are presented as group mean value in grams, with n, the number of animals in each group, in parentheses.

^{**} Final sacrifice period, fasted body weights

TABLE 3

Group Mean Body Weights: Females Year Two of Two-Year IBC Carcinogenicity Bioassay*

	ervation Period	High Dos IBC	se Low I IB		Sali Contr	
15 Feb 85 15 Mar 85 12 Apr 85 10 May 85 7 Jun 85 3 Jul 85 2 Aug 85 30 Aug 85 27 Sep 85 25 Oct 85 22 Nov 85 20 Dec 85 17 Jan 86 7-14 Feb 86	14 15 16 17 18 19 20 21 22 23 24 25 26	232.7 (4 241.0 (4 248.7 (3 255.4 (3 261.2 (3 263.8 (3 270.1 (3 274.6 (3 281.2 (3 281.2 (3 281.4 (2 281.6 (2 279.1 (2 261.2 (1	0) 233.2 9) 240.3 9) 245.2 8) 252.1 7) 256.8 4) 264.1 3) 265.8 1) 273.1 1) 276.5 6) 278.9 5) 278.2 5) 278.0	(52) (52) (51) (51) (50) (49) (46) (44) (44) (44) (42) (37)	236.4 244.8 246.8 253.1 261.1 263.6 273.2 273.8 274.1 276.5 274.1	(51) (51)

^{*} Data are presented as group mean value in grams, with n, the number of animals in each group, in parentheses.

The clinically observed masses included intra-abdominal masses, subcutaneous masses, inguinal masses, cutaneous masses of the ear or scrotum, a maxillary mass, a subscapular mass, a swollen maxilla, and splenomegaly. Of these, only the intra-abdominal group could be correlated to IBC-treatment. The intra-abdominal masses were primarily associated with the ventral aspect of the liver. An increased incidence of intra-abdominal masses was observed for the males relative to the females, and a dose response was apparent for both sexes.

The ocular signs (conjunctivitis, corneal opacity, opaque lens, prolapsed lens, hyphema, ocular discharge/ chromodacryorrhea, microphthalmia, exophthalmus/enlarged globe, iris tear, and dilated pupil) observed in many of the animals (179 of 305) were sequelae to drying (keratoconjunctivitis sicca) of the eyes during surgery (Appendix C). Corneal ulcers formed within 7-14 days. These lesions healed, leaving persistent corneal scars.

^{**} Final sacrifice period, fasted body weights

TABLE 4

Incidence Summary of Clinical Signs

	Summary	OI CTI	Cinical Signs			
Clinical Category and Sign	Saline Control	Males 100 µl IBC	10 µ1 IBC	Saline	Females 100 µ1 IBC	10 µ1 IBC
Total Number at Start of 2nd Year	57	50	55	51	40	52
Scheduled Terminal Sacrifice	44	23	39	29	19	33
Unscheduled Sacrifice/Death	13	27	16	22	21	19
Ocular Abnormalities	20	18	10	46	36	4
conjunctivitis	80	ო	2	39	26	38
corneal opacity	6	16	2	28	23	31
opaque lens	9	ო	ა	7	ო	7
prolapsed lens	4	1	4	7	-	1
hyphema	7	7	ı	ı	1	ı
ocular discharge/chromodacryorrhea		7	1	ı	7	ı
microphthalmia	~	ı	7	1	i	١
exophthalmus/enlarged globe	1	т	1	ı	7	-
iris tear	i	٦	•	ı	ı	1
dilated pupil	-1	ı	I	1	ı	ı
Masses	10	48	36	10	24	17
intra-abdominal mass	7	45	33	S	23	14
subcutaneous mass	ო	ო	2	4	ო	က
inguinal mass	ı	1	1	7	7	1
maxill	Н	1	1	1	1	1
cutaneous mass ear/scrotum	ન	т	ı	ı	1	ı
subscapular mass	1	1	1	ı	-	ı
splenomegaly	1	ı	-1	ı	ı	1

TABLE 4 (cont.)

Incidence Summary of Clinical Signs

Clinical Category and Sign	Saline	Males 100 µl IBC	10 µ1 IBC	Saline Control	Females 100 µ1 IBC	10 µ1 IBC
Skin/Fur Abnormalities anterior body stain posterior body stain rough coat scab/lesion head/neck/back/abdomen papilloma nose/mouth/base of tail pustules/dermal lesions on tail necrosis tail abscess alopecia pododermatitis sebaceous cyst ears erythematous scaling back swollen lip	22 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	155 175 175 175 175 175 175 175 175 175	460 460 460 460 460 460 460 460 460 460	20 8 3 3 1 1 1 1 1	99 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
General Signs pallor emaciated/severe weight loss anorexia dehydration moribund prostrate anemic decreased body temperature	11 8 9 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	11 5 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	71 6 7 1 1 1	1 - 1 - 1 - 1 - 3 - 9	14 1 1 2 2 2 1 1 1

TABLE 4 (cont.)

Incidence Summary of Clinical Signs

			l			
Clinical Category and Sign	Saline	Males 100 µ1 IBC	10 µ1 1BC	Saline Control	Females 100 µ1 IBC	10 µ1 IBC
Respiratory Abnormalities tachypnea	1 1 1	ਜਿਜ।	е н н	o & α	5	55 -
incr. resp depth decr. resp rate	1 1	1 1	. 	111	1 1	11
gasping apnea	1 1	1 1	н н	1 1	1 1	1 1
bloody discharge eyes/nose/mouth	1	1		ı	ı	ı
<pre>Genitourinary Abnormalities perivaginal fistula/ purulence/bleeding</pre>	81	1 1	H 1	ഹ	ታ	7 7
preputial fistula/discharge bloody urine/calculi	N 1	1 1	ਜ ਜ	1 1	1 1	l i
Behavioral Aberrations irritable inactive	S 4. L	m 1 0	⊣ 1 1	777	1 1 1	
hypotonia aggressive tremors	1 1 1		1 1	1 1 1	111	⊣ I ⊣
depressed decreased preening	⊣ I	I F	1 1	1 1	1 1	I I

TABLE 4 (cont.)

Incidence	Summary	of Cli	Incidence Summary of Clinical Signs			
Clinical Category and Sign	Saline	Males Saline 100 µl 10 µl Control IBC IBC	10 µ1 IBC	Saline	Females Saline 100 µl 10 µl Control IBC IBC	10 µ1 IBC
Postoperative Complications xyphoid protuberance fistula, lower abdomen/peritoneal		ოოι	1 1 1		114	111
Miscellaneous Observations ear tag reaction/infection malocclusion cardiac irregularity	911	∞ ιι	וומ	111	ı 1	011

Some animals also had conjunctivitis and chromodacryorrhea which persisted for long periods. Streptococcus faecalis, a common normal flora bacterium, was cultured from the affected eyes. The consulting ophthalmologist reported that this low-grade ocular infection was limited to the globe and its accessory structures. Therefore, no treatment was rendered. Other postsurgical complications included xyphoid cartilage protuberance/nodule (due to accidental incision of the xyphoid cartilage in some animals while attempting to expose the liver sufficiently) and peritoneal fistula. Significant postoperative complications occurred in less than 5% of all animals.

Gross Pathology

Incidence summary reports for gross necropsy observations during year two are presented in Appendix G.

Twenty-one animals, 10 males and 11 females, were found dead, and 97 animals (46 males and 51 females) were euthanized prematurely during the second year of the study. Compound-related lesions (liver adhesions) were observed in 70 of 83 IBC-treated animals in the unscheduled group. One hundred eighty-seven animals (106 males and 81 females) survived to the end of the study and were euthanized. Compound-related lesions (liver adhesions) were observed in 111 of 114 IBC-treated animals.

Dense, tough, fibrous adhesions were observed on the capsular surface of the liver in 48/50 Group 1 (100 μl IBC) males, 34/40 Group 1 (100 μl IBC) females, 52/55 Group 2 (10 μl IBC) males, and 47/52 Group 2 (10 μl IBC) females. The microscopic characteristics of this test compound-related inflammatory reaction are described in detail below in the paragraphs dealing with histologic findings. Only 1/57 Group 3 (saline control) males and 3/51 Group 3 females had grossly evident adhesions on the liver. The adhesions in control animals were very fine, delicate strands in marked contrast to the extensive, tough, fibrous areas observed in IBC-treated animals.

Liver masses were observed grossly in 9/50 Group 1 (100 μ l IBC) males, 13/40 Group 1 (100 μ l IBC) females, 3/55 Group 2 (10 μ l IBC) males, and 0/53 Group 2 (10 μ l IBC) females. Grossly, these irregularly-shaped masses were usually white to light yellow/gray in color, and very firm. In several masses there was gross evidence of hemorrhage and/or necrosis. Gross observation revealed no liver masses in any Group 3 (saline control) male or female rats. In some of the IBC-treated animals, masses were noted in organs other than

the liver, including the diaphragm, stomach, intestines, other abdominal organs, and in the thoracic cavity. Gross appearance of these extrahepatic masses was similar to that of the liver masses. Histologic examination revealed that masses in the liver and other sites were sarcomas arising in the compound-related chronic inflammatory reaction. The incidence of these tumors, a detailed histologic description, and anatomic distribution is provided in the paragraphs below dealing with histologic findings.

Microscopic Pathology

In the text of this report, the description of histologic lesions is limited to those lesions that can be attributed to administration of the test compound, and lesions or disease entities that may affect results or interpretation of results. A complete listing of all microscopic findings (neoplastic and non-neoplastic) in this study is provided in Appendix H. Appendix I is a glossary of pathologic terms used in this study. It includes a definition, a brief morphologic description, and criteria for severity grades of all microscopic lesions observed in this study.

Non-Neoplastic Lesions:

An incidence summary for all non-neoplastic lesions in this study is presented in Appendix H. Non-neoplastic lesions of statistically significant (p \leq 0.05) incidence include compound-related inflammatory reactions in the liver and different locations of the gastrointestinal tract in both males and females receiving the high dose of IBC, hepatocytic vacuolization in high-dose females, the presence of red blood cells and/or hemosiderin within lymph nodes of high-dose males and females, and reactive hyperplasia of lymph nodes in males and females in both high and low dose groups.

Compound-related inflammatory reactions were present in nearly all animals in both high and low dose IBC groups. Table 5 presents the incidence and distribution of these lesions in abdominal viscera. In most animals, the lesions were located at the site where the test material was placed, i.e., on the capsule of the liver and the adjacent diaphragm. Fewer lesions were present on surfaces of the stomach, different portions of the intestinal tract, spleen, and pancreas. The microscopic characteristics of compound-related inflammatory reactions were similar in all sites. In histologic sections, the test material was a clear, slightly yellow, homogeneous crystalline material. Surrounding the test material there was a granulomatous foreign-body reaction

characterized by infiltration of macrophages, lymphocytes, and large multinucleated foreign-body giant cells within abundant fibrous connective tissue. Usually this lesion was limited to the serosal surface of abdominal viscera. In some cases, there was necrosis of underlying tissues and penetration of the serosal surface by the inflammatory response accompanied by regenerative hyperplasia of cells of the organ involved. In four rats, the presence of the compound caused necrosis of the intestinal wall. Regenerating cells of the intestinal mucosa migrated through the submucosa and muscular tunics of the intestine and were entrapped in the adjacent fibrous, granulomatous inflammatory

Distribution of Compound-Related
Inflammatory Reactions: Scheduled and Unscheduled
Animals Combined, Year 2

		MALE			FEMALE	
Group (Number in Group)	CTLS* (57)	1† (50)	2§ (55)	CTLS* (51)	1† (40)	2§ (52)
Liver	0	48	52	0	40	45
Diaphragm	0	41	19	0	38	25
Jejunum	0	14	0	0	13	0
Stomach	0	6	0	0	12	0
Duodenum	0	7	0	0	6	0
Ileum	0	7	0	0	4	0
Pancreas	0	3	0	0	1	0
Cecum	0	4	0	0	1	0
Colon	0	3	0	0	2	0
Spleen	0	1	0	0	1	0
Abdominal Cavity	0	1	3	0	0	0

^{*} CTLS = Saline controls

 $[\]dagger$ Group 1 = 100 μ l IBC

[§] Group 2 = 10 μ l IBC

tissues. In these cases, the entrapped cells had essentially normal histologic characteristics, except for their location and their association with mild degenerative and atrophic changes. There were no indications of cellular atypia, nuclear pleomorphism, or abnormal mitotic activity. These lesions were present in the jejunum in two females and one male in the high dose group, and in the duododenum in one high-dose female. No intestinal lesions of this type were observed in control animals.

The incidence of hepatocytic vacuolization was statistically significant only in female rats in the high dose group. Seventeen of 40 animals in this group exhibited the lesion, as compared to 8 of 51 control females. In other treatment groups, the lesion was present, but the incidence was not statistically significant. Hepatocytic vacuolization consisted of small-to-large cytoplasmic vacuoles within hepatocytes. In sections appropriately prepared and stained, fat could be demonstrated. The vacuolated hepatocytes were not uniformly distributed in the liver.

The incidence of reactive hyperplasia in lymph nodes was significantly greater in male and female rats in both high and low dose groups compared to control animals. Reactive hyperplasia consisted of non-neoplastic, noninflammatory increases in cellularity in lymph nodes. There were increased numbers of cells in perifollicular areas of the cortex. Medullary cords and sinuses contained large numbers of plasma cells. Eosinophilic, protein-rich edema fluid may have been present.

The presence of red blood cells and/or hemosiderin pigment in lymph nodes occurred with increased frequency in both males and females in the high dose group. Table 6 shows the incidence or these changes in lymph nodes.

Neoplastic Lesions:

An incidence summary for all neoplasms, both malignant and benign, is presented in Appendix H. Sarcomas that arose in the compound-related inflammatory reaction were the only neoplasms that exhibited a statistically significant incidence. Thirty-one rats treated with IBC developed these tumors. Table 7 displays the distribution of these lesions by treatment group, sex, and whether in scheduled or unscheduled animals. The first animal necropsied with a compound-related sarcoma died on 26 February 1985, day 399 after intra-abdominal administration of the test material.

TABLE 6

Incidence of Reactive Hyperplasia, Red Blood Cells and/or Hemosiderin in Lymph Nodes, Year 2

		MALE]	FEMALE	
Group (Number in Group)	CTLS* (57)	1† (50)	2§ (55)	CTLS* (51)	1† (40)	2§ (52)
Reactive Hyperplasia	8	25**	29**	7	25**	24**
RBC's and/or Hemosiderin	12	24**	18	15	28**	17

^{*} CTLS = Saline controls

Of the 31 animals with compound-related sarcomas, 21 died or were sacrificed in a moribund condition prior to scheduled termination of the study. Ten sarcoma-affected animals survived until terminal sacrifice. Only 27 of the 31 animals with sarcomas had grossly detectable masses at necropsy. Four sarcomas were detected only by microscopic examination.

These sarcomas involved many organs in some animals, through either multicentric sites of origin, or local invasion, or metastasis. The histologic characteristics of these tumors were extremely variable. The entire spectrum of histologic differentiation of mesenchymal tissue was represented in this group of tumors. Some tumors were well-differentiated fibrosarcomas, osteosarcomas, or myxosarcomas, while others were very anaplastic and poorly differentiated. In some lesions, multiple types of histologic differentiation occurred in the same tumor. Of the 31 compound-related sarcomas in this study, 13 were predominantly fibrosarcomas, 12 were anaplastic sarcomas, 5 were osteosarcomas, and one was a myxosarcoma. One anaplastic sarcoma had an abundance of chondrocytes and cartilaginous matrix. Two other tumors

 $t Group 1 = 100 \mu l IBC$

 $[\]S$ Group 2 = 10 μ l IBC

^{**}Entries flagged with (**) are significantly different from control at the 0.05 significance level using Kolmogorov-Smirnov Two-Tailed Test.

Sarcomas Arising in Compound-Related
Inflammatory Reaction
Time of Sacrifice: Unscheduled or Terminal, Year 2

		MALE			FEMALE		
Group	CTLS*	1†	2§	CTLS*	1†	2§	Total
Unscheduled	0	9	3	0	9	0	21
Terminal**	0	6	1	0	3	0	10
Total	0	15	4	0	12	0	31

^{*} CTLS = Saline controls

had large areas that resembled rhabdomyosarcoma, but no cross striations could be demonstrated in sections stained with phosphotungstic acid-hematoxylin stains. The liver was the most frequently affected organ, but it was not involved in every case. Twenty-seven of the 31 animals with these tumors had lesions in the liver. In one rat, only the duodenum was involved, one animal only had a tumor in the ileum, and in another, the sarcoma was limited to the stomach and spleen. Table 8 lists the anatomic distribution of these compoundrelated sarcomas. Because of the multiple sites of involvement, the primary site for these lesions is coded as the abdominal cavity, and involvement of each individual organ is coded as a metastatic lesion. Using this method of computer entry, it was possible to tabulate the occurrence of these sarcomas and document the organs involved without duplicating incidence. The diagnosis: "Presence of Metastatic Sarcoma" is used only when it is certain that the sarcoma developed within the reaction to the test material.

t Group 1 = 100 μ l IBC

[§] Group 2 = 10 μ l IBC

^{**}Terminal or final sacrifice (scheduled animals)

TABLE 8

Anatomic Distribution of Sarcomas Arising in Compound-Related Inflammatory Reaction**, Year 2

		MALE			FEMALE		
Tissue	CTLS*	1†	2≶	CTLS*	1†	2§	Total
Liver	0	12	3	0	12	0	27
Diaphragm	0	8	2	0	10	0	19
Mediastinal	0	4	0	0	2	0	6
Jejunum	0	2	2	0	2	0	6
Spleen	0	2	2	0	1	0	5
Pancreas	0	3	1	0	1	0	5
Stomach	0	1	1	0	2	0	4
Duodenum	0	3	0	0	1	0	4
Ileum	0	3	0	Ç	1	0	4
Lung	0	1	0	C	1	0	2
Lymph Nodes	0	0	0	0	2	0	2
Kidney	0	0	0	0	1	0	1
Cecum	0	1	0	0	0	0	1
Colon	0	1	0	0	0	0	1

^{*} CTLS = Saline controls

Six rats in this study had fibrosarcomas that did not arise in the compound-related inflammatory reaction. Four of these were female (1 control, 1 high dose, and 2 low dose) animals in which sarcomas occurred in the subcutaneous tissue of the inguinal region. In three of these animals, the tumors invaded the adjacent pelvic cavity and involved the

t Group 1 = 100 μ l IBC

[§] Group 2 = 10 μ l IBC

^{**}Includes both primary and metastatic sites

rectum. One male control rat had a fibrosarcoma that was limited to the cortex of one kidney. One male in the high dose group had a fibrosarcoma surrounding the metal identification tag in the pinna of the external ear. Three females (2 control and 1 high dose) had endometrial stromal sarcomas. These lesions did not resemble the sarcomas that arose in compound-related inflammatory reaction.

Four IBC-treated rats (2 low dose males and 2 high dose females) had hepatocellular carcinomas in the liver. The morphologic characteristics of hepatocellular carcinomas are well documented in the literature. For this study, the criteria of Maronpot et al. (6) were followed. Important features of these tumors included irregular shape, cellular atypia, local invasiveness, haphazardly arranged cells, broad sheets of cells, trabecular patterns, and glandlike formations of tumor cells. Hemorrhage, necrosis, vascular invasion, and metastases were observed in several of these lesions.

Large granular lymphocyte leukemia occurred in 62 animals in this study. The group distribution of this malignant tumor of lymphoid cells is shown in Table 9. The histologic characteristics of this common neoplasm in Fischer-344 rats are described in the Glossary of Pathologic Terms, Appendix I.

TABLE 9

Large Granular Lymphocyte Leukemia
Time of Sacrifice: Unscheduled or Terminal, Year 2

	-	MALE	_	1	TEMALE	ì	
Group	CTLS*	1†	2§	CTLS*	1†	2§	Total
Unscheduled	3	9	9	9	3	9	42
Terminal**	2	1	7	5	3	2	20
Total	5	10	16	14	6	11	62

^{*} CTLS = Saline controls

 $[\]dagger$ Group 1 = 100 μ l IBC

[§] Group 2 = 10 μ l IBC

^{**}Terminal sacrifice or scheduled animals

There was no statistical significance for the incidence of this lesion; however, 42 animals died or were satrificed in a moribund condition because of the presence of this disease.

Many animals in this study developed a variety of malignant and benign tumors. Tumors of the testes, endocrine glands, and mammary glands were the most common. There was no statistically significant increase in incidence for any of these miscellaneous tumors in IBC-treated animals compared to controls.

The individual animal pathology reports are provided in Volume 2, Appendix J.

DISCUSSION

This report records the findings from the second year of a two-year carcinogenicity bioassay of IBC. This includes complete clinical histories and gross and microscopic pathological data on all unscheduled and scheduled (final sacrifice) animals surviving the first year of the study.

Clinical findings during the second year indicated that male and female animals treated with IBC gained weight at the same rate as the control animals. These findings also indicated that, as a whole, the animals in this study remained relatively healthy throughout the second year. Clinical signs observed during this period were a continuation of those seen during the first year (1), and generally were of little clinical significance. Ocular conditions, which were secondary to desiccation of the eyes during surgery, were limited to the globe and accessory structures, and had no significant impact on the animals' health. Other postsurgical complications, e.g., xyphoid protuberance, were also insignificant to the outcome of the study.

One hundred eighteen unscheduled animals died or were euthanized at various times during the second year. These animals exhibited more aging and compound-related complications than did animals in the first year. IBC-treated animals in the unscheduled group had compound-related gross fibrous adhesions between the liver and the diaphragm, abdominal wall, and/or visceral organs. A similar lesion was observed in IBC-treated animals euthanized at the final sacrifice (scheduled animals). Microscopically, these lesions were characterized as a foreign-body granulomatous reaction involving the liver capsule and parenchyma.

Analysis of the results of this study indicates that the intra-abdominal administration of IBC is related to the development of sarcomas in Fischer-344 rats. Thirty-one (16%) of the IBC-treated animals and none of the controls developed these tumors. The major concern is the mechanism by which the test material exerts its carcinogenic effect. The results of this study do not indicate definitively whether chemical carcinogenesis or solid-state carcinogenic mechanisms were involved in the induction of these tumors.

Solid-state carcinogenesis is a phenomenon which has been recognized for nearly fifty years (7). There is a large body of literature documenting the occurrence of this phenomenon, and comprehensive reviews of this topic have been published (8,9,10). Solid-state carcinogenesis involves the development of sarcomas in the subcutis or abdominal cavity of laboratory rodents that have had solid, smooth-surfaced material implanted in these sites. A wide variety of materials, including numerous plastics, cellophane, teflon, metals, and glass have been shown to induce sarcomas by this mechanism. The chemical nature of the implanted material is irrelevant to the production of tumors. The characteristics essential for tumor production are the size and form of the implant. A smooth surface is essential. Solid-state carcinogenesis occurs only when the implanted material is a film, sheet, or other large form having a smooth surface. If the same material is pulverized and administered as a powder, no tumors result. The tumors develop in the fibrous, granulomatous, foreign-body reaction that envelopes the implanted material. The tumors that result are invariably sarcomas that have diverse histologic variation.

The sarcomas that were present in rats implanted with IBC in this study probably developed as a result of solid-state carcinogenesis. The characteristics of the implanted material, the anatomic sites involved, and the histologic differentiation of the sarcomas fulfill the criteria for this mechanism. However, since a group of animals implanted with pulverized IBC was not included in the experimental design, chemical carcinogenic mechanisms, though an unlikely cause of the sarcomas, cannot be completely ruled out on the basis of these results.

Six animals in this study had sarcomas that were clearly unrelated to the test material. Four were invasive fibrosarcomas observed in the subcutis of the inguinal region in female rats. The inguinal fibrosarcomas probably resulted from malignant transformation of the connective tissue stroma of mammary glands. The incidence of these tumors does not differ significantly from that in published reports. The fibrosarcoma that was present in the external ear adjacent to

the metal identification tag in one animal is interesting in that it may represent an additional case of solid-state carcinogenesis in response to a foreign body. The presence of one sarcoma in the kidney of a control rat is interpreted as a spontaneous lesion unrelated to the experiment, and of little consequence.

Four IBC-treated rats in this study (2 low-dose males and 2 high-dose females) developed hepatocellular carcinoma. No control animals exhibited this lesion. Although the incidence of this malignant liver tumor was not statistically significant, these results may have biological significance and provide reason for concern. The incidence of hepatocellular carcinoma for IBC-treated male rats in this study was 1.9%, while the incidence for treated females was 2.1%. In published reports documenting tumor incidence, hepatocellular carcinomas occur at a rate of 0.2% in female and 0.8% in male control Fischer-344 rats (11-16). However, the increased incidence of hepatocellular carcinoma did not follow a dose-response trend characteristic of hepatocellular tumors induced by chemical carcinogens.

Sixty-two rats in this study developed large granular lymphocyte leukemia, a common neoplasm of lymphoid tissue in Fischer-344 rats. This disease has been well-studied and characterized in the literature (17,18,19). The incidence and characteristics of this disease in rats used in this study did not differ significantly from published information. Forty-two rats died with this disease prior to scheduled terminal sacrifice. The premature deaths of these animals probably had little or no impact on the results or conclusions drawn from this study.

Most of the rats treated with IBC had gross adhesions and fibrous, granulomatous foreign-body reactions on the liver and adjacent organs that came in contact with the test material. These lesions persisted for the normal life-span of the rat. As noted in the interim report covering the first year of this study, the physical presence of the compound and attendant response may have affected the function and patency of the intestinal tract. The increased incidence of hepatocytic vacuolization in livers of treated animals indicates possible alterations in metabolism of these Although such altered metabolism could be due to cells. chemical toxicity, it is just as likely the result of local circulatory disturbances caused by the presence of the compound and associated foreign body reaction. The increased incidence of reactive hyperplasia, red blood cells, and hemosiderin pigment in lymph nodes of treated rats is not surprising. Such changes normally occur in nodes draining areas of chronic inflammation.

The results of this study do not elucidate fully the carcinogenic potential of isobutyl 2-cyanoacrylate. Although the data suggest the sarcomas were induced by solid-state mechanisms, they are not definitive because of a lack of a dose group that received ground polymerized IBC. The incidence of hepatocellular carcinomas in treated animals, at a rate more than twice that reported for rats of the same strain and age in other studies (although a statistically nonsignificant incidence), gives cause for concern. Because of the potential usefulness of IBC as a tissue adhesive in surgical and dental procedures, additional studies designed to evaluate fully the carcinogenic potential and mechanisms of this material should be conducted.

CONCLUSION

During the second year of this two-year carcinogenicity bioassay of IBC, there were no treatment-related changes in survival, weight gain, or clinical condition of the rats. Compound-related lesions observed in animals during the second year included adhesions and/or local granulomatous reactions of the liver or other abdominal organs, and liver or other soft tissue tumors or neoplasia. An increased incidence of sarcomas was attributed to the chronic implantation of IBC in the Fischer-344 rat. There was no clear evidence that the hepatocellular carcinomas observed were attributable to the IBC.

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CHEMICAL DATA Appendix A:

Chemical Name: Isobutyl 2-cyanoacrylate

Other Listed Names: Bucrylate®, 2-cyano-2-propenoic acid 2-methyl-propyl ester, 2-cyanoacrylic acid isobutyl ester, bucrilate, IBC, IBCA*

Chemical Abstracts Service Registry No.: 1069-55-2*

Therapeutic Category: Surgical aid (tissue adhesive) *

LAIR Code: TP60

Chemical Structure:

Molecular Formula: C₈H₁₁NO₂

Molecular Weight: 153.18

Physical State: Clear colorless liquid

Boiling Point: 170°C*

Stability: Stable in sealed ampules. Polymerizes within minutes on contact with air. Polymerizes in less than 1 second on contact with ionic solutions, e.g., saline or blood.*

Name of Contaminants and Percentages: See chemical data sheet attached

Source: Ethicon, Inc.

Somerville, NJ 08876

Lot No.: 929-252

Analytical Data/Purity:

Infrared spectrophotometry was performed on 11, 23, and 25 Jan 84, and the results were identical to the standard spectrum from Ethicon, Inc. Major absorption peaks were observed at 2965, 1740, 1470, 1385, 1290, 1190, 980, 930, and 715 cm^{-1} .

Analytical Data/Stability:

Samples of isobutyl 2-cyanoacrylate (IBC) were evaluated by gas chromatography on 11, 23, and 25 Jan 84.† Thus, IBC was analyzed prior to dosing, on the first day of dosing, and the day following dosing. The chromatogram for each analysis showed only one peak, with a retention time of 3.3 min. These data support the sponsor's claim that the IBC will not deteriorate inside the sealed ampules.

^{*} Windholz M. Merck index. 10th edition, 1983. Monograph number 1433, Bucrylate. Page 201-202. Merck & Co, Inc, Rahway, NJ.

[†] O'Connor RJ. Memorandum for record, 26 Jan 1984, Subject: Analysis report, GLP Study No. 83009, Analytical Chemistry Group. Letterman Army Institute of Research, Presidio of San Francisco, CA.

ETHICON

INC.

SOMERVILLE .

January 6, 1984

To:

Dr. W. D. Sheffield

cc: Mrs. S. L. Couchman

Dr. A. W. Fetter Mr. J. P. O'Donnell Dr. D. W. Regula

Subject: BUCRYLATE TISSUE ADHESIVE

TUMORGENICITY STUDY

The following material is being transmitted to you for initiation of the tumorgenicity study:

Lot #929-252

(750 ampules)

 $0.5 \, \text{m}$

IBC-2

One hundred twenty-five ampules have been included for stability assurance testing and another one hundred twenty-five ampules for long-term retention as required by GLP regulations.

Attached are the finished goods test results and a reference infrared spectrum for this lot. The primary sterility run number is R315001 and the overwrap sterility run number is R343MB2.

Please let me know if I can answer any questions.

mem

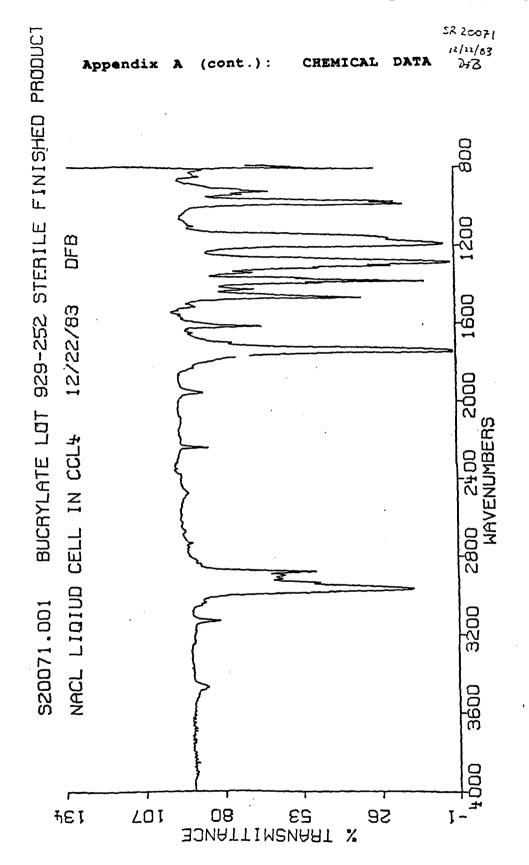
Attachment

Finished Goods Test Results

Lot #929-252

Result
Conforms to standard
99.9,
562
0.081
None detected
0.046 at 400 nanometer 0.0002 from 400-800 nanometers 2.188
<100
<10
725
2.3

Reference #929-252 Analytical Service Request #20071





DEPARTMENT OF THE ARMY

LETTERMAN ARMY INSTITUTE OF RESEARCH PRESIDIO OF SAN FRANCISCO, CALIFORNIA 94129

REPLY TO ATTENTION OF:

SGRD-ULV-AC

26 January 1984

MEMORANDUM FOR RECORD

SUBJECT: Analysis Report, GLP Study No. 83009, Analytical Chemistry Group

Date: 26 Jan 84

Sample: IBC-2 (Isobutyl-2-cyanoacrylate)

Lot: 929-252

I. Identity

The Infrared Spectrums 131, 132, 133 (11 Jan 84), 135, 136, 137 (23 Jan 84), and 138, 139, 140 (25 Jan 84) are consistent with the Infrared Spectrum provided by ETHICON (SR 20071 - 12/22/83-DFB).

Instrument: Perkin-Elmer Model 457

Red Tag 2912 FSN 6650-C19-5014

Methods: Analytical method AD-100B, identification of isobuty1-2-cyanoarcylates, analytical chemistry, ETHICON, Inc. (9/16/70), was used as the basis for analysis. The Infrared Spectrums were done in two different ways. The first followed the above method with the following exceptions: KBr (potassium bromide) was used for the window material and the reference cell was a variable path length cell that was matched to the sample cell. The second method was a "Neat" film of the sample between KBr windows. The film method provided additional information including a peak near 800 cm which was masked by the solvent in the first method.

II. Purity

The gas chromatographic profiles of IBC-2 showed one major component representation 100% of the total peak area when it was run on 11 Jan 84, 23 Jan 84, and 25 Jan 84.

Methods: Analytical method AD-100B, identification of isobutyl-2-cyanoacralates, analytical chemistry, ETHICON, Inc. (9/16/70), was used as the basis for the analysis.

SGRD-ULV-AC

26 January 1984

SUBJECT: Analysis Report, GLP Study No. 83009, Analytical Chemistry Group

Instrument: Varian 4600

Column: 3% SP-2100 on 100/120

Injector: 200°C

Detector: 250°C

Carrier Gas: Nitrogen (20 cc/min)

Run Length: 15 minutes

Detector: FID

Sensitivity: 10-11

III. Conclusion

The above data indicates that the IBC-2, Lot 929-252, has not deteriorated in the sealed vials provided by ETHICON and is consistent with the data provided.

RICHARD J. O'CONNOR

Research Chemist

Analytical Chemistry Group

Appendix B: ANIMAL DATA

Species: Rattus norvegicus

Strain: Fischer-344 (CDF)

Source: Charles River Breeding Laboratories, Inc.

Wilmington, MA 01887

Reared at Kingston (K62) plant

Sex: Male and female

Date of birth: 13 December 1983

Method of randomization: Weight biased, stratified animal

allocation (TOXSYS Animal

Allocation Program, SOP OP-ISG-24)

Animals in each group: 68 male and 68 female animals, except

female control group totaled 67

animals

Condition of animals at start of study: Normal

Body weight range at dosing: 29 g - 123 g

(male mean = 94.0 g; female mean = 73.8 g)

Toxicology In-Life

Identification Procedures (TOXSYS):

Ear-tagging procedure (SOP-OP-ARG 1), tag numbers 84D00001 to 84D00209 (inclusive) for males and 84D00226 to 84D00435 (inclusive) for females.

Pathology Identification Procedures:

Animals were assigned a three-digit number for data entry into the Xybion Data Acquisition Computer. A cross reference list for the TOXSYS assigned numbers was generated by the LAIR Comparative Pathology Branch (Appendix J).

Pretest conditioning: Quarantine/acclimation 11-22 January 1984

Justification: The Fischer-344 laboratory rat (versus the Sprague-Dawley or Charles River CD rat) has proven to be a sensitive and reliable model for chronic carcinogenesis bioassays due to its low incidence of spontaneous mammary gland and liver cancer. This strain is recommended by the NCI Carcinogenesis Bioassay Program.

Appendix B (cont.): ANIMAL DATA

Group Codes:

<u>Group</u>	Toxicology Code	Pathology Code
High-Dose IBC (100 μl)	A* (Red)†	1 §(High)
Low-Dose IBC (10 µl)	B* (Yellow)†	2 §(Low)
Saline Control (100 µl)	C* (White)†	3 §(CTL)

- * Alphabetic code used on 2 x 3 inch cage card and on animal's chest during surgical phase.
- † Plastic cage card protector contained a bar-coded animal number (84D00---) and a 0.5 inch square piece of color coded tape.
- § Numerical code used to group pathology data within Xybion computer software.

Appendix C: SURGICAL REPORT

SGRD-ULV-P

30 March 1984

MEMORANDUM FOR RECORD

SUBJECT: Surgical Report, GLP Study 83009

- 1. On 23 & 24 January 1984, surgery was performed in the Operating Room, LAIR, on 407 six-week-old acclimated Fischer-344 rats assigned to the Toxicology Services Group's (TSG) chronic two-year Bucrylate® Carcinogenesis Bioassay. Surgeons involved were: COL Carpenter and LTC Koppelman, USAIDR, and LTC Rodkey, LAIR. Surgery was performed under LAIR GLP Protocol 83009.
- 2. Surgery was necessary to enable the test substance (Bucrylate) to be applied directly to the surface of the liver of study animals. Surgery on 179 males occurred on 23 Jan, and surgery on the remaining 25 males and 203 females occurred on 24 Jan 84.
- 3. Animals were transported, one rack of 60 rats at a time, to the Operating Room Services Group (ORSG) Surgical Suite from the Toxicology Services Group Animal Suite. Racks were covered with sterile sheets to provide for infection control and a dark, quiet, unstressed environment. Surgery started at 0730 hours on 23 Jan with animal number 84D00001 and progressed through animal numbers sequentially to 84D00434. Animals were randomly assigned to the three dose groups. Animals were presented to the surgeons in a random fashion without regard to group assignment. Animals were fasted (from food only) 1-4 hours prior to surgery.
- 4. Each animal was examined for health, checked to verify identification (ear tag, cage card bar code, and group assignment tape), and weighed on an Arbor scale (TOXSYS terminal recorded). The scale was recalibrated each morning prior to use. Male animals weighed approximately 100 g and females 75 g each. Anesthesia consisted of an intramuscular hindlimb injection of a mixture of xylazine HC1 (10 mg/kg) and ketamine HC1 (50 mg/kg). Anesthetic was prepared by LTC Rodkey by mixing 5 ml ketamine (100 mg/cc), 2.5 ml Rompun[®] (20 mg/cc) and 42.5 ml of sterile saline. Dose calculations, lot, and expiration of anesthetics and diluent are provided in Incl \$1.

- 5. Proper identification and controls on group assignment for dosing were stressed. Color coded tape, containing the animal's number, was placed on the tail of the animal while a "back-up system" letter signifying dose group was placed on the chest of the animal with surgical marker pen (black CMS fine tip marking pen, lot #138-800). Animals were prepared for surgery by clipping the abdomen and caudal ventral half of the thorax with a number 40 Oster blade and Oster electric clipper. Animal anesthesia, weighing, and clipping were performed by TSG technicians under MAJ Morgan's supervision.
- 6. Rats were placed on a rat restraining board in the supine position and the clipped area was scrubbed with povidone-iodine surgical soap and disinfected with povidone-iodine solution and alcohol. The rats were moved to the surgery table and draped so that only the surgically prepared area was exposed. LAIR surgical operating procedures applicable to instrument sterilization, aseptic technique, and sterile field were in effect. Surgical packs were exchanged, cleaned, and autoclaved after every 6 animals. Surgeons changed gloves after every six animals, and dosing personnel changed gloves frequently.
- 7. A midline laparotomy incision was made extending 2-3 cm caudal from the xyphoid cartilage. The liver was exposed by the surgeon using either ophthalmic surgical retractors or by "tenting" the abdominal wall with forceps. Bucrylate (Lot 929-252; Ethicon, Inc.) or sterile saline was applied to the inferior surface of the exposed liver (usually caudate lobe) in amounts specified in the protocol. Dose Group 1, the high dose IBC group, received 100 microliters (μ 1) of isobuty1 2cyanoacrylate (IBC); Dose Group 2 (low dose IBC) received 10 μl of IBC, and Group 3 (saline control) received 100 μl of sterile isotonic saline (Lot 56-329-FD-05, Exp. 1 Sep 1986; Abbott). Dosing was performed by TSG personnel using fixed volume Eppendorf micropipettes (calibrated 17 and 18 Jan 84) with sterile disposable tips. One ampule of Bucrylate was used per animal for dose groups 1 and 2--any remaining test compound was discarded.
- 8. One animal (84D00126) was misdosed and immediately removed from the study. After application of the IBC, the abdominal walls were retracted or "tented" for approximately two minutes to allow for drying of the test substance. Dosing was monitored by the principal investigator, MAJ Brown (TOXSYS ID 10186).

- 9. The laparotomy incision was closed using two layers. The first consisted of 4-0 Vicryl® (Ethicon, Inc.) in a simple continuous pattern for the abdominal fascia, muscle, and peritoneum. The skin was closed using either 35 mm Proximate® (Ethicon, Inc.) skin staples or 35 mm Michelle skin clips.
- 10. Animals were recovered in clean, rat rack cages in the autoclave room adjoining the Surgical Suite. Room temperature in the recovery area was warm (29.1-31.9°C). After approximately 2 hours in the recovery area, the animals were transferred back to the TSG Animal Suite, and given water and food.
- 11. Animals were monitored postoperatively by LTC Rodkey and TSG staff. Skin staples were removed on 31 Jan and 1 Feb 84 (7-10 days) by TSG veterinarians. Twelve of the 407 rats died or were removed from the study during the first week after surgery due to underweight condition, surgical complications, and/or obstructed intestine due to Bucrylate adhesions. Postoperatively, rat #84D00013 acquired an infection along the line of incision. After one week of treatment with hydrogen peroxide, the incision healed. Approximately 50 animals were noted to have corneal opacities one week postoperatively. Keratoconjunctivitis sicca (dry eye) and subsequent ulcerative keratitis are fairly common sequelae to rat surgery. The etiology is thought to be related to drying of the cornea as the globe protrudes, and under anesthesia, the eyelids fail to cover the cornea and the blink reflex is absent. Ophthalmic ointment is probably indicated in all rodent procedures using general level anesthesia.
- 12. Overall, the surgery went very smoothly and animals tolerated the procedure well. On 1 Feb 84, 382 animals had recovered—the initial goal was to have at least 360 survivors for the study.
- 13. Personnel assisting in the surgery are listed in Incl #2. Study records are on file listing, by animal, the amounts of anesthesia administered, surgeon, and dosing personnel. Ms. Janice M. Adams, Manager, Regulatory Affairs, Ethicon, Inc., audited the surgery on 23 & 24 Jan 84. CPT Carroll, LAIR, QAO also visited the Surgical Suite during this period.

14. In preparation for surgery, a meeting was held between ORSG and TSG personnel on 13 Jan 84. The Ethicon videotape on the surgical procedure was reviewed and technicians practiced the dosing procedure using Eppendorf micropipettes and one ampule of Bucrylate. Pilot surgery was performed on 20 Jan 84. Eighteen rats were operatively laparotomized and dosed according to simulated group assignments.

Incl as

LTC, VC

Chief, Operating Room Services Group Diplomate, Am Coll Vet Surgeons

CF: COL Carpenter LTC Koppelman MAJ Korte

Raw data Binder, 83009

Enclosure One to Surgical Memorandum For Record, 30 March 1984

ANESTHESIA GLP STUDY 83009

Rat	Wt	Xylazine*	Ketaminet	Vol Mixture§
80	g	0.4 mg	4 mg	0.4 ml
100	g	0.5 mg	5 mg	0.5 ml
120	g	0.6 mg	6 mg	0.6 ml
140	g	0.7 mg	7 mg	0.7 ml

Mixture§ Components

Xylazine (Rompun®) 10 mg/kg, 20 mg/cc, (Lot 260013, Jan 85

Ketamine (Vetalar®) 50 mg/kg, 100 mg/cc, (Lot 03793p, Jul 88 Exp.)

Saline Diluent∞, (Lot 7C856X9, Nov 84 Exp.)

^{*} Rompun[®], 10 mg/cc, Haver-Lockart, Shawnee, KS. † Vetalar[®], 100 mg/cc, Parke-Davis, Morris Plains, NJ.

[§] Anesthetic mixture contained 10 mg ketamine and 1 mg xylazine (Rompun®)/ml

[§] Anesthetic Mixture Formula: 5 ml ketamine soln + 2.5 ml xylazine soln + 42.5 ml saline = 50 ml anesthetic mixture

[∞] Viaflex, 0.9% NaCl Injection USP, Travenol Laboratories, Inc., Deerfield, IL.

Enclosure Two to Surgical Memorandum For Record, 30 March 1984

LAIR PERSONNEL WORKING ON SURGICAL PHASE OF GLP STUDY 83009

<u>Personnel</u>	Group	Duty
MAJ Korte, Don W. Jr	Toxicology	Study Director
MAJ Brown, Larry D.	Toxicology	Principal Investigator
MAJ Morgan, Earl W.	Toxicology	TOXSYS, Presurgery Prep, Recovery
SFC Farmer, Charles N.	Toxicology	Scheduling
SP5 Kellner, Thomas P.	Toxicology	Dosing
SP5 Mullen, Lawrence	Toxicology	Dosing
SP5 Rodriquez, Justo	Toxicology	Prep
PFC Sano, Steven K.	Toxicology	Prep, Late Night Recovery
Ms. Lewis, Carolyn M.	Toxicology	Dosing
Ms. Coppes, Valerie G.	Toxicology	Initial Recovery, Prep
Mr. Dacey, John	Toxicology	Dosing
Mr. Spieler, Richard A.	Toxicology	Primary Animal Caretaker
Ms. Hernandez, Susan	Toxicology	TOXSYS, Prep
Mr. Sands, Edward M.	Toxicology	Prep
LTC Rodkey, William G.	Operating Rm	Surgery
SSG Del la Cerda, Maria V.	Operating Rm	Surgery
SSG Davis, Garry	Operating Rm	Surgery
SP5 Weber, David	Operating Rm	Surgery
SP5 Aiken, Byron	Operating Rm	Surgery
SP5 Cornier-Garcia Juan	Operating Rm	Surgery
SP5 Stevens, Daniel	Operating Rm	Surgery
SP4 Peterson, Kimothy	Operating Rm	Surgery
PFC Rothhammer, Gregory A.	Animal Res Group	Prep

Appendix D: HISTORICAL LISTING OF STUDY EVENTS

<u>Date</u>	Event
11 Jan 84	209 male and 210 female Charles River (CDF) Fischer-344 rats were received. Animals were checked for physical condition, sexed, individually caged, and fed.
12 Jan 84	Rats were ear-tagged and weighed. Eight rats (4 male and 4 female) were submitted for necropsy quality control.
11 - 22 Jan 84	Animals were observed daily during quarantine/acclimation period.
19 Jan 84	Animals were weighed and randomized into dose groups.
20 Jan 84	Three underweight animals and one maloccluded animal were sacrificed.
23 Jan 84 - 29 Jan 85	All animals were observed twice daily throughout the study for clinical signs and mortality.
23 Jan 84	One hundred seventy-nine animals were weighed, provided with ketamine/xylazine anesthesia, surgically laparotomized, and implanted with IBC or saline according to dose group.
24 Jan 84	Two hundred twenty-eight animals were weighed, provided with ketamine/xylazine anesthesia, surgically laparotomized, and implanted with IBC or saline according to dose group.
24 Jan - 1 Feb 84	All animals were observed frequently during the 7-day postoperative recovery period.
24,25,26,27, or 28 Jan 84	Twenty-five animals either died or were sacrificed during the postoperative period because of complications or underweight conditions.

Appendix D (cont.): HISTORICAL LISTING OF STUDY EVENTS

Date

Event

1 Feb 84

Three hundred eighty-two (93.9%) of 407 rats that went to surgery remained on study.

3 Feb 84 - 27 Jan 85

Seventeen unscheduled animals were necropsied during first year of study - 14 sacrificed due to poor condition and 3 died in cage.

3,31 Mar, 8 Apr, 9,18,19,27 Jun, 14,16 Jul,15 Sep, 13 Dec 84

Steam outages occurred, or animal suite ventilation fans were down. Spikes in room temperature and small drops in relative humidity occurred during these periods.

12,19,23 or 24 Jan 84, 28 or 29 Jan 85 All animals were weighed.

16 or 17 Feb, 15 or 16 Mar, 12 or 13 Apr, 10 or 11 May, 7 or 8 Jun, 5 or 6 Jul, 2 or 3 Aug, 30 or 31 Aug, 27 or 28 Sep, 25 or 26 Oct, 22 or 23 Nov, 20 or 21 Dec 84, and 17 or

All animals were examined, palpated by veterinarian or toxicologist, and weighed at 28-day intervals (monthly).

28 - 29 Jan 85

Interim sacrifice. Sixty animals were weighed, sacrificed, and necropsied.

30 Jan 85

18 Jan 85

Three hundred five rats remain "on study" for second year of study.

30 Jan 85 - 10 Feb 86

One hundred eighteen unscheduled animals were necropsied during second year of study - 97 sacrificed due to poor condition and 21 died in cage.

HISTORICAL LISTING OF STUDY Appendix D (cont.): EVENTS

Date

Event

27 Apr, 21 Aug, 26 Oct, 2 Nov,

Steam outages occurred, or animal suite ventilation fans were down. Spikes in 14 Dec 85, 7 Jan 86 relative humidity and small drops in room temperature occurred during these periods.

14 or 15 Feb, 14 or 15 Mar, 11 or 12 Apr, 9 or 10 May, 6 or 7 Jun, 2 or 3 Jul, 1 or 2 Aug, 29 or 30 Aug, 26 or 27 Sep, 24 or 25 Oct, 21 or 22 Nov, 19 or 20 Dec 85, All animals were examined, palpated by veterinarian or toxicologist, and weighed at 28-day intervals (monthly).

27 Jan - 14 Feb 86

16 or 17 Jan 86

Final sacrifice. One hundred and eighty-seven animals were weighed, sacrificed and necropsied.

14 Feb 86

Study "in-life" completed.

Appendix E: GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

Long-term (TOXSYS® Term) - Definition

1. General

- a. Normal (NORMAL) animal appears to be healthy, exhibits no recognizable clinical signs.
- b. Hunched Posture (HUNCH POS) an increase in the curvature of the thoracic spine as viewed from the side.
- c. Prostration (PROSTRATE) animal stretched out in a horizontal position but conscious.
- d. Loss of Consciousness (LOSS CONS) prostrate and unresponsive to sensory stimuli (touch, sound, pain, light, etc.).
- e. Moribund (MORIBUND) animal is near death.
- f. Death (DEATH) permanent cessation of all vital body functions.
- g. Emaciated (EMACIATED) the animal appears to have lost weight, but the skin appears hydrated (i.e., the skin does not remain in place when squeezed together).
- h. Dehydrated (DEHYDRATE) the animal appears to have lost weight and skin remains in place when squeezed.
- i. Pallor (PALLOR) a lack of color to the skin or eyes.

2. Behavioral

- a. Inactive (INACTIVE) a decrease in the locomotor activity of the animal.
- b. Hyperactive (HYPERACT) an increase in the locomotor activity of the animal.
- c. Irritable (IRRITABLE) an increase in annoyance or anger to slight stimulation.

Appendix E (cont.): GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

- d. Aggressive (AGGRESS) animal is bold, wants to fight, characterized by a desire to bite for no apparent reason.
- e. Vocalization (VOCAL) production of sound from the larynx.
- f. Increased or Decreased Preening (IN PREEN or DE PREEN) an increase or decrease in the grooming behavior of the animal.
- g. Circling (CIRCLING) repeated walking or running in a circle.
- h. Jumping (JUMPING) springing or leaping around the cage.
- Chewing (CHEWING) animal goes through the motion of biting and/or grinding with no external stimulus.
- j. Ataxia (ATAXIA) loss of coordination characterized by staggering or loss of gait.
- k. Hypotonia (HYPOTONIA) decrease in muscle tone.
- 1. Hypertonia (HYPERTONIA) increase in muscle tone.
- m. Catalepsy (TRANCE) animal tends to remain in any position in which it is placed.
- n. Somnolence (DROWSY) animal appears drowsy, but can be aroused by prodding and resumes normal activities.
- o. Tremors (TREMORS) a trembling or quivering of the limbs or entire body.
- p. Fasciculation (TWITCH) twitching of the muscles seen on the back, shoulders, hind limbs, and paws.
- q. Writhing (WRITH) twisting or wrenching the body abnormally.
- r. Paralysis (PARALYSIS) loss or impaired motor function in the limbs or entire body.

Appendix E (cont.): GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

 Disoriented (DISORIENT) - animal appears dazed and confused.

3. Convulsions

- a. Tonic Convulsion (TONIC) persistent contraction of muscles with rigid extension of limbs.
- Clonic Convulsion (CLONIC) convulsion alternating contraction and relaxation of muscles.
- c. Tonic-clonic Convulsion (MIXED) both types may appear consecutively.
- d. Opisthotonus (OPISTOT) tetanic spasm in which the back is arched and the head pulled towards the dorsal position.

4. Reflexes

- a. Depressed Myotactic Reflex (PULL) decreased ability of animal to retract its hind limb when the limb is pulled down.
- Depressed Pinch Reflex (PINCH) decreased response (jerking away of limb) to pinching of toes.
- c. Depressed Grasping Reflex (GRASP) decreased ability to take hold of finger firmly when hung from it.
- d. Depressed Righting Reflex (RIGHTING) decreased ability to assume normal position when the animal has been placed on its side or back.
- e. Depressed Corneal Reflex (CORNEAL) decreased response (closing of the eyelids) to touching of the cornea.
- f. Depressed Pupillary Reflex (PUPILLARY) decreased constriction of the pupil in the presence of light.
- g. Increased Startle Reflex (STARTLE) increased response to external stimuli (e.g., touch, noise).

Appendix E (cont.): GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

h. Depressed Pinnal Reflex (PINNAL) - decreased response (twitching of external ear) elicited by stroking of inside surface of ear.

5. Respiratory

- a. Increased or Decreased Respiratory Rate (IN RATE or DE RATE) - an increase or decrease in the repetitions of inhaling and exhaling air.
- b. Increased or Decreased Respiratory Depth (IN DEPTH or DE DEPTH) - an increase or decrease in the volume of air inhaled or exhaled with each repetition.
- c. Irregular Respiration (IRREGULAR) any irregular rate and/or depth of respiration. Since this can be any pattern, a description should be given.
- d. Apnea (APNEA) transient cessation of breathing.
- e. Gasping (GASPING) deep, labored inspiration, often accompanied by a wheezing sound.
- f. Panting (PANTING) rapid, shallow breathing.
- g. Wheezing (WHEEZE) raspy sound made with breathing.
- h. Sneezing (SNEEZE) animal makes sneezing-like sounds.
- i. Nasal Discharge (NASAL DIS) a discharge from the nose is produced. A description of the color is required.

6. Ocular

- Lacrimation (TEARING) an increase in the production of tears.
- b. Chromodacryorrhea (RED TEARS) production of redcolored tears.
- c. Miosis (MIOSIS) decreased pupil size.
- d. Mydriasis (MYDRIASIS) increased pupil size.

Appendix E (cont.): GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

- e. Squinting (SQUINTING) closing of the eyelids, usually in response to light.
- f. Exophthalmus (BULGING) increased protrusion of the eyeball.
- g. Corneal Opacity (OPACITY) an opaque spot or area on the cornea.
- h. Conjunctivitis (CONJUNC) inflammation of the conjunctiva, characterized by red, swollen eyelids.
- i. Ptosis (PTOSIS) drooping of the upper eyelid from paralysis.

7. Gastrointestinal

- a. Increased Salivation (IN SALIVA) an increase in the production of saliva.
- b. Dried Mucous Membranes (DRY MOUTH) drying of the mucous membranes in the mouth, usually from decreased salivation.
- Retching (RETCHING) a strong, unproductive gag response.
- d. Vomiting (VOMITING) the expulsion of the contents of the stomach through the mouth.
- e. Diarrhea (DIARRHEA) increased frequency and liquidation of fecal discharges.
- f. Scant Feces (SCANT) decrease in the frequency of fecal discharges.
- g. Tarry Feces (TARRY) blackish, watery feces often due to blood in the feces.

8. Skin/fur

a. Hyperemia (HYPEREMIA) - an increase in reddish color of skin over entire body, usually from vasodilation (i.e., flushed).

Appendix E (cont.): GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

- b. Cyanosis (CYANOSIS) a bluish discoloration of the skin, often related to respiratory problems.
- c. Jaundice (JAUNDICE) a yellow discoloration of the skin, often due to liver dysfunction.
- d. Scaling (SCALING) scaling of the skin.
- e. Erythema (ERYTHEMA) an increase in the redness of the skin in small areas (i.e., not the entire body). Location should be specified.
- f. Bleeding (BLEEDING) loss of blood. Location should be specified.
- g. Scab (SCAB) a crust of hardened blood and serum over a wound on the skin. Location should be specified.
- h. Edema (EDEMA) the presence of large amounts of fluid in the intercellular tissue spaces. Location should be specified.
- i. Ulceration (ULCERATN) the formation of a break in the skin or mucous membrane with loss of surface tissue, disintegration and necrosis of epithelial tissue, and often pus. Location should be specified.
- j. Necrosis (NECROSIS) localized death of living tissue. Location should be specified.
- k. Alopecia (HAIR LOSS) absence or loss of hair from the skin where it normally is present. Location should be specified.
- Rough Coat (RGH COAT) a rough appearance to the coat due to any number of reasons, such as piloerection, dullness, lack of grooming.

9. Miscellaneous

 Urine, Feces - meant to be used with color descriptors to describe any abnormal coloration.

Appendix E (cont.): GLOSSARY OF TERMS FOR CLINICAL OBSERVATIONS

- b. Stain, Material meant to be used with color and location descriptors to describe any abnormal stains or material found on the coat.
- c. Color Descriptors clear, light, dark, yellow, orange, red, blue, green, and brown.
- d. Location Descriptors head, mouth, eye, ear, nose, neck, front leg, hind leg, thorax, abdomen, back, side, flank, perianal, tail, left, right, and both.

PAGE 100 NA DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

INDIVIDUAL ANIMAL HISTORIES Appendix F:

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS Species: D Sex: MALE Animal ID: 84D00030

WEIGHT

												MARKED	
												ANOREXIA	
												MARKED,	•
												STAIN BROWN HEAD MODERATE, EMACIATED MARKED, ANOREXIA	ad.
SNOI	İ											MODERAT	record
BSERVAT	:											WN HEAD	rvations
OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	NORMAL	STAIN BRO	* No observations recorded.									
(GRAMS)	405.0	410.0	409.0	416.0	419.0	411.0	411.0	416.0	414.0	415.0	414.0		
OPERATOR	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000037	0000337	0034567	0002920	0000337	0000337
TIME	7:52:18	8:05:02	7:59:50	6:53:14	7:54:16	6:46:16	8:20:02	6:50:10	7:21:24	7:15:52	13:17:58	8:30:56	8:34:14
DATE	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/18/85	12/18/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATI
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 2 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00032 Species: D Sex: MALE Group: CONTROLS

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORWAL	NORMAL CONJUNCTIVITIS BOTH EYE SLIGHT, STAIN BROWN NOSE MODERATE, STAIN YELLOW	PERIANAL MODERATE, STAIN BROWN MOUTH SLIGHT, ANOREXIC	NORMAL	NORMAL	PAPILLOMA NOSE SMALL	PAPILLOMA NOSE SMALL	PAPILLOMA NOSE SMALL	PAPILLOMA NOSE SMALL,	SUBCUTANEOUS MASS LEFT SIDE ABDOMEN SIZE LARGE (20 X 20MM)	SUBCUTANEOUS MASS LEFT SIDE OF ABDOMEN SIZE LARGE [35 X 40 MM],	PAPILLOMA NOSE SMALL	SUBCUTANEOUS MASS LEFT SIDE LARGE
WEIGHT (GRAMS)	446.0	454.0			444.0	457.0	461.0	452.0	459.0		476.0		
OPERATOR	0000337	0078478		0000337	0000337	0000337	0010186	0000337	0001576		0084799		0084799
TIME	8:36:22	8:06:22		9:43:30	8:01:20	7:28:12	7:55:26	6:54:38	8:20:46		7:12:30		6:04:28
DATE	2/14/85	3/14/85		3/27/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85		8/29/85		9/19/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATE STUDY: 0083009 COMPOUND: IS START DATE: 1

Appendix F

-CYANOACRYLATE ACRYLATE (IBC) IN MALE AND FEMALE RATS.	ANIMAL HISTORY	: D Sex: MALE Group: 10 UL/ANM	WEIGHT (GRAMS) CLINICAL OBSERVATIONS	435.0 INTERABDOMINAL MASS VENTRAL TO LIVER	INTRAABDOMINAL	MASS.	INTRABBOOMINAL	455.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TOLIVER SIZE LARGE	MASS VENTRAL	454.0 CORNEAL OPACITY LEFT EXE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER MODERATE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, PROLAPSED LENS LEPT EYE MARKED. OPAGUE LENS LEFT EYE MARKED	448.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED	450.0 OPAQUE LENS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	455.0 OPAQUE LENS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	444.0 HYPHEMIA LEFT EYE MODERATE, OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	_	437.0 OPAQUE LENS LEFT EYE MARKED, INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM 426.0 INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE LARGE,SPLENIC MASS SIZE LARGE,	
0		Species:	WE OPERATOR (G	0000337 4	178	337	337	0000337 4	0000337		0000337	0084799 4	0084799 4	0000337 4	0000337 4	799	0084799 4	337
ISOBUTYL: 1/28/85		84D00033	TIME	8:36:50			8:22:50	7:30:18	7:15:38	7:56:50	6:49:54	6:58:16	8:25:56	7:15:32	7:22:18	7:30:50	13:19:48 7:50:26	
COMPOUND: START DATE		Animal ID: 84D00033	DATE	2/14/85 2/28/85	3/14/85	4/11/85	4/25/85	5/09/85	6/04/85	6/06/85	6/19/85	7/02/85	8/01/85	8/29/85	9/26/85		11/21/85	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 4 DATE: 6/09/87 TIME: 14:40:13 EDSO17 V4M11

Animal ID: 84D00034 Species: D Sex: MALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

									HT	H	HT	HT	HT	SLIGHT, EUTHANIZ	
									SLIGHT	SLIG	SLIGHT	SLIGHT	SLIGHT	SLIG	
Æ	¥	A.	Į.	A.	Į.	Ţ	7	7	HEAD	HEAD	HEAD	HEAD		HEAD	
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	SCAB	SCAB	SCAB	SCAB	SCAB	SCAB	
393.0	399.0	403.0	404.0	419.0	413.0	418.0	419.0	415.0		420.0	408.0	411.0	406.0	380.0	
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0072808	0034567	0002920	0000337	0000337	0000337	
8:40:36	8:11:08	8:06:58	7:31:32	8:00:48	7:02:20	8:27:54	7:18:16	7:26:10	8:52:32	7:32:38	13:23:54	7:54:06	7:48:26	8:03:24	
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	0/21/85	0/24/85	1/21/85	2/19/85	1/16/86	1/27/86	

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00035 Species: D Sex: MALE Group: CONTROLS

WEIGHT
ATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATION

OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	STAIN BROWN NOSE SLIGHT	NORMAL	NORMAL	PODODERMATITIS LEFT REAR HOCK SLIGHT	PODODERMATITIS LEFT REAR HOCK SLIGHT										
(GRAMS)	408.0			417.0	427.0	429.0	435.0	437.0	440.0	435.0	433.0	439.0	412.0	419.0	406.0	368.0
OPERATOR	0000337	0000337	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337	0000337
TIME	8:41:00	7:49:02	7:51:30	8:11:48	8:08:10	7:32:00	8:01:28	7:03:00	8:28:14	7:20:44	7:26:32	7:33:32	13:26:32	7:54:38	9:00:05	8:02:38
DATE	2/14/85	3/04/85	3/12/85	3/14/85	4/11/85	5/09/85	9/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/2//86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 6 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00036 Species: D Sex: MALE Group: CONTROLS

CLINICAL OBSERVATIONS	NORMAL	NORMAL	PAPILLO	PAPILLO	PAPILLO	PAPILLOMA BASE OF TAIL	PAPILLO	PAPILLOMA BASE OF TAIL	TAIL PAPILLOMA SMALL	PAPILLOMA TAIL SMALL	NORMAL	NORMAL	INACTIVE SLIGIT, STAIN RED BACK SLIGHT, DEPRESSED MODERATE	INACTIVE MARKED, ANOREXIA MARKED
WEIGHT (GRAMS)	428.0	423.0	435.0	442.0	453.0	448.0	412.0	454.0	434.0	444.0		419.0		
WEIGHT OPERATOR (GRAMS)	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0084799	0000337	0002920	0072808	0000337
TIME	8:41:22	8:12:40	8:08:58	7:32:32	8:01:58	7:03:32	8:28:40	7:21:22	7:26:58	7:33:52	7:50:10	13:27:18	10:36:42	12:50:58
DATE	2/14/85	3/14/85	4/11/85	5/09/85	€/06/85	7/02/85	8/01/85	8/59/85	9/26/85	10/24/85	11/06/85	11/21/85	12/02/85	12/03/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANO,CRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84000038

													/ EUTHANIZED
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
421.0	427.0	435.0	440.0	444.0	424.0	447.0	447.0	449.0	460.0	449.0	438.0	408.0	368.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337	0000337
8:41:40	8:14:00	8:11:18	7:33:36	8:02:40	7:04:14	8:29:48	7:22:22	7:28:18	7:34:30	13:27:58	7:55:52	9:00:54	8:08:10
2/14/85	3/14/85	4/11/85	5/09/65	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/21/86

STUDY: 0083009	60		CARCINOGENI
COMPOUND:	ISOBUTYL	ISOBUTYL 2-CYANOACRYLATE	ACRYLATE
CTADT DATE.	1/28/85		

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 8 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00039 Species: D Sex: MALE Group: CONTROLS

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	
CLINICAL	
(GRAMS)	
OPERATOR	
TIME	
DATE	

												TAIN BROWN HEAD SLIGHT, PALLOR SLIGHT, EMACIATED MODERATE	CMACIATED MARKED, CONJUNCTIVITIS BOTH EYE MARKED, STAIN YELLOW PERIANAL
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	STAIN BROWN HEAD	EMACIATED MARKED
405.0	414.0	417.0	425.0	435.0	439.0	441.0	441.0	450.0	460.0	438.0	404.0		316.0
7660000	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0002950	0000337	0000337	0000337
8:42:06	8:15:48	8:11:40	7:34:08	8:03:00	7:04:40	8:30:18	7:22:38	7:28:40	7:35:24	13:31:32	7:56:16	9:43:30	9:01:22
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/03/86	1/16/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00040

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS		14/95 D.42.00 CC.CA.0 A10 O A0141/C
WEI R (GR	1	-
OPERATO		7550000
TIME		0.42.23
DATE		2/14/05

													_
													EUTHANIZED
													`
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
419.0	431.0	427.0	431.0	437.0	433.0	429.0	433.0	428.0	425.0	421.0	402.0	383.0	355.0
0000337	0078478	0000337	00000337	0010186	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337	0000337
8:42:22	8:16:16	8:12:26	7:34:30	8:03:22	7:05:14	8:30:38	7:23:02	7:28:58	7:36:12	13:32:14	7:56:58	9:05:10	8:10:58
2/14/85	3/14/85	4/11/85	5/09/85	9/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/27/86
	8:42:22 0000337 419.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 8:30:38 0001576 429.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 8:30:38 0001576 429.0 7:23:02 0000337 433.0	8:142:22 0000337 419.0 8:15:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 8:30:38 0001576 429.0 7:28:58 0000337 428.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 8:30:38 0001576 429.0 7:23:02 0000337 428.0 7:36:12 0034567 425.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 8:30:38 0001576 429.0 7:23:02 0000337 428.0 7:28:58 0000337 428.0 7:36:12 0034567 425.0	8:42:22 0000337 419.0 8:16:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 8:30:38 0001576 429.0 7:23:02 0000337 428.0 7:28:58 0000337 428.0 7:36:12 0034567 425.0 7:56:58 0000337 402.0	8:42:22 0000337 419.0 8:15:16 0078478 431.0 8:12:26 0000337 427.0 7:34:30 0000337 431.0 8:03:22 0010186 437.0 7:05:14 0000337 433.0 7:23:02 0000337 429.0 7:28:58 0000337 428.0 7:36:12 0034567 425.0 13:32:14 0002920 421.0 7:56:58 0000337 402.0 9:05:10 0000337 383.0

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACI
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 10 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00041 Species: D Sex: MALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85	8:42:50	0000337	392.0	NORMAL				
3/14/85	8:16:44	0078478	404.0	NORMAL				
4/11/85	8:13:26	0000337	406.0	NORMAL				
5/09/85	7:34:58	0000337	412.0	NORMAL				
6/06/85	8:03:46	0010186	421.0	NORMAL				
7/02/85	7:06:02	0000337	415.0	NORMAL				
8/01/85	8:31:00	0001576	423.0	NORMAL				
8/29/85	7:23:22	0000337	422.0	NORMAL				
9/26/03	7:29:22	0000337	427.0	NORMAL				
10/24/85	7:36:30	0034567	433.0	NORMAL				
11/21/85	13:32:46	0002920	397.0	NORMAL				
12/04/85	8:02:04	0000337		STAIN BROWN				
12/11/85	10:45:28	0000337		STAIN BROWN	MODERATE, STAIN	ROWN MOUTH	BROWN MOUTH MODERATE, EMACIATED MARKED	MARKED

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Group: CONTROLS CLINICAL OBSERVATIONS MALE Sex: WEIGHT (GRAMS) Species: D OPERATOR Animal ID: 84D00042 TIME DATE

NORMAL / EUTHANIZED NORMAL 355.0 347.0 382.0 3377.0 3379.0 389.0 392.0 395.0 395.0 395.0 0000337 0078478 0000337 0000337 0010186 0001576 0000337 00034567 0002920 0000337 8:43:10 8:17:06 8:17:06 8:14:18 7:35:20 8:04:10 7:06:31:26 7:29:46 7:29:46 7:36:52 13:33:14 7:57:12 2/14/85 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 11/21/85 1/16/86 1/27/86

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE STARI DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 17 DATE: 6/09/8/1
TIME: 14:10:13
EDS017 V4M1;

Group: 10 UL/ANM MALE Animal ID: 84D00046 Species: D Sex:

NOBMAT.
390.0
0000337
8:43:40
2/14/85 8:43:40 0000337 390.0 NORMAL

6/06/85 7/02/85 8/01/85 8/29/85 9/26/85	7:35:54 8:04:34 7:07:18 8:31:48 7:24:30 7:30:08	0000337 0010186 0000337 00001576 00000337	408.0 408.0 408.0 404.0	NORMAL NORMAL NORMAL NORMAL NORMAL	
10/24/85 11/21/85 12/19/85 1/16/86	7:57:10 7:57:30 9:07:34	0002920 0000337 0000337	402.0 404.0 386.0	_	O T N A D G I G

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00047

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

	IN NOSE SLIGHT													EUTHANIZED
ب.	STAIN BROWN	4	با	-1	-1	1	ų	-1	٦,	-1	ָרָ.	ب.	ų	\
NORMAL	STAIN	NORMAL	NORMAI	NORMAL	NORMAL	NORMAL	NORMAL							
417.0		430.0	433.0	444.0	447.0	436.0	454.0	455.0	463.0	457.0	447.0	449.0	439.0	405.0
0000337	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337	0000337
8:44:16	7:53:26	8:18:50	8:15:54	7:36:22	8:05:02	7:07:46	8:32:18	7:24:54	7:30:34	7:37:38	13:34:02	7:57:50	9:07:52	8:14:50
2/14/85	3/12/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/27/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 14 DATE: 6/09/8/ TIME: 14:40:13 EDS01/ V4311

ANIMAL HISTORY

Group: 10 UL/ANM MALE Species: D Sex: Animal ID: 84D00049

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	
2/14/85	8:44:34	0000337	374.0	NORMAL	
3/14/85	8:19:44	0078478	430.0	NORMAL	
4/11/85	8:16:50	0000337	434.0	NORMAL	
5/09/85	7:36:44	0000337	440.0	NORMAL	
5/22/85	7:24:32	0000337		INTRABBOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
6/06/85	8:06:04	0010186	446.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
6/06/85	8:11:48	0010186	446.0	PODPDERMATITIS LEFT REAR HOCK SLIGHT	
6/10/85	7:50:42	0000337		PODODERMATITIS RIGHT REAR HOCK SLIGHT,	
				INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
7/02/85	7:08:28	0000337	467.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
8/01/85	8:32:42	0001576	450.0	CONJUNCTIVITIS RIGHT EYE SLIGHT,	
				INTRABBOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
8/13/85	8:28:12	0000337		INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
8/29/85	7:25:32	0000337	448.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
9/26/85	7:30:54	0000337	449.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
10/24/85	7:38:12	0034567	470.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
11/21/85	13:34:30	0002920	461.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
12/19/85	7:58:10	0000337	454.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	
1/16/86	9:08:12	0000337	452.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM,	
				SUBCUTANEOUS MASS LEFT THORAX SIZE MEDIUM	
1/27/86	8:16:14	0000337	422.0	INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM,	9
				SUBCUTANEOUS MASS LEFT THORAX SIZE MEDIUM, EUTHANIZED	g

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00050 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

																		ARGE, EUTHANIZED	
			E MEDIUM	MEDIUM	SIZE MEDIUM	SIZE MEDIUM		-	~	Z	MEDIOM	MEDIUM	MEDIUM	MEDIOM	LARGE	LARGE	LARGE	-	•
			SIZE	SIZE	1218	SIZI	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	1
_	LIVER	LIVER	LIVER,	LIVER,	LIVER,	LIVER,	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	•
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	VENTRAL	MASS VENTRAL	MASS VENTRAL	VENTRAL	VENTRAL	VENTRAL	MASS VENTRAL	VENTRAL	VENTRAL		VENTRAL.								
MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	
	INTERABDOMINAL	INTERABDOMINAL	INTRABBOOMINAL	INTRABBOOMINAL	INTRAABDOMINAL	INTRABBDOMINAL	INTRAABDOMINAL	INTRAABDOMINAL	INTRAABDOMINAL	INTRAABDOMINAL	INTRAABDOMINAL	INTRABBDOMINAL				INTRABBDOMINAL	INTRABBDOMINAL	TNTDAARDOMINAL	THINDSPERSON
368.0	388.0	416.0	421.0	422.0	426.0	430.0	431.0	435.0	426.0	428.0	439.0	441.0	446.0	442.0		440.0	430.0	207	>
0000337	0000337	0000337	0078478	0000337	0000337	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	000000	0000337	0000337	0000337	700000	000000
8:46:06	8:48:06	7:51:42	8 . 20 . 38	9:16:00	8:17:42	8:27:38	7:37:30	8:10:18	7:09:50	8:34:02	7:27:02	7 - 34 - 00	7-40-36	13.38.52	9.06.16	7.59.30	0.10.28	07.00	8:20:02
2/14/85	2/14/85	2/28/85	3/14/85	4/03/85	4/11/85	4/25/85	5/00/5	6/06/85	7/02/85	8/01/85	20/10/0	50/57/0	7/26/85	20/12/01	11/21/03	12/04/05	50/61/71	00/01/1	1/2//86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 16 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00051

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

									MEDIUM	MODERATE
	BROWN NOSE SLIGHT								MODERATE, SPLENOMEGALY MEDIUM	
NORMAL NORMAL	STAIN BROWN NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	PALLOR	PALLOR
388.0	419.0	424.0	417.0	417.0	418.0	423.0	413.0	398.0	353.0	
0000337	0000337	0000337	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337
8:49:14	8:09:06	7:38:44	7:10:44	8:36:50	7:28:08	7:38:22	7:41:42	13:40:06	8:00:20	10:33:48
2/14/85	4/02/85 4/11/85	5/09/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	12/23/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
STAR DATE: 1/28/85

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00052

	STAIN BROWN NOSE SLIGHT NORMAL STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT NORMAL STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT SCAB KIGHT EAR SLIGHT SCAB KIGHT SCAB KIGHT SCAB KIGHT STAIN BROWN NOSE SLIGHT	EMACIATED MODERATE, STAIN NED BOTH EIE SLIGHT, EUTHANIZED
CLINICAL OBSERVATIONS	NORMAL STAIN BROWN NOSE SLIGHT NORMAL STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT, CONJUNCT CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS LEFT EYE SLIGHT, NORMAL STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT SCAB RIGHT EAR SLIGHT SCAB RIGHT EAR SLIGHT SCAB RIGHT EAR SLIGHT STAIN BROWN NOSE SLIGHT	EMACIATED MODERATE, STAI
WEIGHT (GRAMS)	410.0 421.0 421.0 421.0 432.0 444.0 444.0 422.0 422.0	337.0
OPERATOR	00000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337	0000337
TIME	-8:49:24 7:56:14 8:22:24 8:22:56 8:22:56 6:45:26 7:29:08 7:39:30 7:39:30 7:39:30 7:39:30 7:38:28 8:37:14 7:28:28 8:37:14 7:57:30 13:40:48 8:02:46	8:22:32
DATE	2/14/85 3/12/85 3/12/85 3/12/85 3/12/85 5/02/85 5/02/85 5/02/85 5/02/85 5/12/85 6/06/85 11/06/85 11/21/85	1/27/86

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

ANIMAL HISTORY

PAGE 18
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Animal ID: 84D00053 Species: D Sex: MALE Group: 10 UL/ANM

WEIGHT DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

E MEDIUM E MADIUM E LARGE E LARGE E LARGE E LARGE, SPLENIC MASS SIZE LARGE MEDIUM MEDIUM S12E S12E S12E S12E S12E S12E S12E S12E LIVER LIVER LIVER LIVER LIVER LIVER LIVER LIVER LIVER INTRAABDOMINAL MASS VENTRAL TO LI
INTRAABDOMINAL MASS VENTRAL TO LI
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INTRAABDOMINAL MASS VENTRAL TO LI NORMAL NORMAL NORMAL NORMAL 450.0 469.0 469.0 472.0 467.0 467.0 467.0 448.0 451.0 0078478 0000337 0000337 0010186 0034567 0000337 0002920 0000337 0001576 0000337 0000337 0000337 8:50:22 8:23:26 8:21:46 7:39:56 7:43:16 7:58:38 13:42:22 8:03:14 9:11:40 8:16:24 7:12:20 8:37:58 7:29:22 7:40:24 TIME 6/06/85 7/02/85 8/01/85 10/24/85 11/06/85 11/21/85 12/19/85 1/16/86 4/11/85 5/09/85 8/29/85 9/26/85 3/14/85 2/14/85 DATE

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00054

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL O	CLINICAL OBSERVATIONS
/14/85	8:50:48	0000337	412.0	NORMAL	
3/14/85	8:23:56	0078478	425.0	NORMAL	
4/11/85	8:22:56	0000337	435.0	NORMAL	
5/09/85	7:40:26	0000337	438.0	NORMAL	
9/90/9	8:17:02	0010186	439.0	NORMAL	
7/02/85	7:14:38	0000337	440.0	NORMAL	
8/01/85	8:38:44	0001576	444.0	NORMAL	
8/29/85	7:30:34	0000337	454.0	NORMAL	
9/26/85	7:41:42	0000337	432.0	NORMAL	
10/24/85	7:44:10	0034567	435.0	NORMAL	
1/21/85	13:43:30	0000300	410.0	NORMAL	
12/19/85	8:03:54	0000337	405.0	NORMAL	
1/16/86	9:16:08	0000337	389.0	NORMAL	
1/27/86	8:24:28	0000337	358.0	NORMAL /	EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOFUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FUMALE RATS.

PAGE 20 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 100 UL/ANM MALE Animal ID: 84D00055 Species: D Sex:

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

	SLIGHT	SLIGHT	SLIGHT	SLIGHT,																											
	EYE	EYE	EYE	EYE		EYE		EYE		EXE		EYE																			
	RIGHT	RIGHT	RIGHT	RIGHT											IZED																
	OPACITY	OPACITY	OPACITY	OPACITY	SMALL	OPACITY	MEDIUM	OPACITY	MEDIOM	OPACITY	MEDIOM	OPACITY	MEDIUM	OPACITY	MEDIUM	OPACITY	MEDIUM	OPACITY	MEDIUM	OPACITY	LARGE		MEDIUM	MEDIOM,		MEDIUM,		MEDIUM,	E LENS	MEDIUM,	ry, Euthan
	EYE MODERATE, CORNEAL OPACITY	EYE MODERATE, CORNEAL OPACITY	EYE MODERATE, CORNEAL	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRABBDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRABBDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	MARKED,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	MARKED	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM,	RIS TEAR DORSAL ASPECT LEFT EYE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM,	LEFT EYE MARKED WITH OPAQUE LENS	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM,	EYE WITH MARKED OPACITY, EUTHANIZED
1			T EYE	T EYE	VENT	T EYE	VENT	VENT	T EYE	VENT	PECT	VENT	EYE	VENT																	
	Y LEF	X LEF	Y LEF	Y LEF	MASS	Y LEF	MASS	Y LEF	MASS	X LEF	MASS	X LEF	MASS	X LEF	MASS	Y LEF	MASS	Y LEF	MASS	X LEF	MASS	Y LEF	MASS	MASS	X LEF	MASS	AL AS	MASS	LEFT	MASS	LEFT
	PACIT	PACIT	PACIT	PACIT	MINAL	PACIT	MINAL	PACIT	MINAL	PACIT	MINAL	PACIT	MINAL	PACIT	DMINAL	PACIT	JMINAL	PACIT	JMINAL	PACIT	DMINAL	PACIT	DMINAL	MINAL	PACIT	MINAL	R DORS	MINAL	GLOBE	MINAL	GLOBE
	CORNEAL OPACITY LEFT	CORNEAL OPACITY LEFT	CORNEAL OPACITY LEFT	CORNEAL	INTRAABD	CORNEAL (INTRAABD	CORNEAL	INTRAABD	CORNEAL	INTRAABDO	CORNEAL	INTRAABD	CORNEAL (INTRABBD	CORNEAL	INTRABBO	CORNEAL	INTRAABDO	CORNEAL (INTRABBD	CORNEAL OPACITY LEFT EYE MARKED,	INTRABBO	INTRABDO	CORNEAL OPACITY LEFT EYE MARKED	INTRABBD	IRIS TEA	INTRAABDO	ENLARGED GLOBE	INTRAABDO	ENLARGED GLOBE
	387.0	409.0	417.0	423.0				429.0				425.0		432.0		430.0		421.0				423.0		411.0		410.0		400.0		377.0	
	0000337	0078478	0000337	0000337		0000337		0010186		0000337		0000337		0001576		0000337		0000337		0084799		0034567		0084799		0084799		0000337		0000337	
	8:51:12	8:24:32	8:23:34	7:41:10		7:33:36		8:17:30 0010186		7:04:00		7:15:10		8:39:04		7:31:20 0000337		7:42:08		7:32:48		7:44:52		13:44:12		8:04:22		9:17:08		8:26:28	
	2/14/85	3/14/85	4/11/85	5/09/85		5,722/85		6/06/85		6/19/85		7/02/85		8/01/85		8/29/85		9/26/85		10/16/85		10/24/85		11/21/85 13:44:1		12/19/85		1/16/86		1/27/86	

PAGE 21 0 DATE: 6/09/87 TIME: 14:40:13 PEDS017 V4M11 F

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS AALE. Sex: Species: D Animal ID: 84000056 WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

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CORNEAL CORNEAL CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNE AL	CORNEAL	CORNEAL
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8:52:06 7:55:42 7:57:28	8:25:12	7:45:32	8:19:34	7:16:10	8:39:56	7:32:38	7:45:42	7:47:34	13:47:56	8:11:42	8:07:00	0:19:40	L:29:32
2/14/85 3/04/85 3/12/85	3/14/85 4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	0/24/85	1/21/85	2/04/85	2/19/85	1/16/86	1/27/86

PAGE 22 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY	Group: CONTROLS
	Group:
	MALE
	Sex:
	Species: D
	Animal ID: 84D00058
	1 ID:
	Animal

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS
2/14/85	8:52:50	00000337	410.0	CORNEAL OPACITY LEFT EYE SLIGHT, PROLAPSED LENS RIGHT EYE MARKED,
3/12/85	7:58:16	0000337		OFAQUE LENS RIGHT LEFT SLIGHT, PROLAPSED LENS RIGHT EYE MARKED,
3/14/85	8:25:44	0078478	413.0	OFACILI RIGHT ELE FARRED, SIGHT, BROWN NOSE SILOHI CORNEL OPACHTY LEFT EYE SILGHT, PROLAPSED LENS RIGHT EYE MARKED, COBACH FENS DIGHT EYE MARKED
4/11/85	8:25:22	0000337	408.0	CORNEL DEAD MICH. LET I THINK CONNEL OPACHY EYE MARKED, OPACHY INS RIGHT EYE MARKED,
58/60/5	7:46:02	0084799	411.0	PROLAPSED LEAN RIGHT EXE MARKED, OPPAQUE LENS RIGHT EYE MARKED, HEMMORHAGE ANTERIOR CHAMBER RIGHT EYE MARKED. DIJATED PUPIL LEFT EYE MARKED
9/90/9	8:20:18	0010186	415.0	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, DILATED PUPIL LEFT EYE MARKED
7/02/85	7:16:54	0000337	405.0	PROLAPSED LENS BOTH EYE MARKED, OPAQUE LENS BOTH EYES MARKED
8/01/85	8:40:18	0001576	403.0	PROLAPSED LENS BOTH EYE MARKED, OPAQUE LENS BOTH EYE MARKED, HYPHEMA ANTERIOR CHAMBER LEFT EYE SLIGHT
8/29/85	7:33:04	0000337	411.0	PROLAPSED LENS BOTH EYES MARKED, OPAQUE LENS BOTH EYES MARKED
9/26/85	7:46:10	0000337	418.0	OPAQUE LENS BOTH EYES MARKED
10/24/85	7:48:34	0034567	425.0	OPAQUE LENS BOTH EYES MARKED
11/21/85	13:53:02	0002920	416.0	OPAQUE LENS BOTH EYES MARKED
12/19/85	8:07:18	0084799	429.0	PROLAPSED LENS BOTH EYES MARKED, OPAQUE LENS BOTH EYES MARKED
1/16/86	9:20:56	0000337	427.0	BILATERAL OPAQUE LENS
1/27/86	8:31:52	0000337	404.0	BILATERAL OPAQUE LENSES, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00059 Species: D Sex: MALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
SUBCUTANEOUS MASS LOWER RIGHT FOREARM SIZE SWALL
SUBCUTANEOUS MASS RIGHT SIDE HUMERUS SIZE LARGE
SUBCUTANEOUS MASS RIGHT SIDE HUMERUS 407.0 424.0 422.0 432.0 439.0 442.0 454.0 459.0 0000337 0000337 0010186 0000337 0001576 0000337 0000337 0000337 0078478 0000337 7:50:42 8:25:02 7:18:52 8:42:42 7:35:06 8:38:58 8:28:52 8:27:12 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 9/24/85 2/14/85 3/14/85

STUDY: 0083009	6		CARCI
COMPOUND:	ISOBUTYL	ISOBUTYL 2-CYANOACRYLATE	¥
START DATE:	1/28/85		

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

PAGE 24 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00060 Species: D Sex: MALE Group: 10 UL/ANM

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															SPLENIC SIZE LARGE, EMACIATED MODERATE, STAIN BROWN NOSE		INTRRABDOMINAL MASS SPLENIC SIZE LARGE, EMACIATED MARKED, STAIN YELLOM	
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						MEDIUM	MEDIUM	MEDIUM	MEDIUM	LARGE	MEDIUM	MEDIUM	LARGE		IATEC		IATEC	
						SIZE M			SIZE M				ZE LI		EMAC]		EMAC	
						R SI	R SIZE	R SIZE	SIS	LIVE: SIZE	LIVER SIZE	LIVER SIZE	TO LIVER SIZE	3GE	RGE, 1		RGE, 1	
						LIVE	LIVE	LIVE	LIVER	LIVE	LIVE	LIVE	LIVE	SIZE LARGE	F		<u> </u>	
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MEIGHT DPERATOR (GRAMS) CLINICAL OBSERVATIONS						MASS	MASS	INTRAABDOMINAL MASS VENTRAL TO LIVER	INTRABBOOMINAL MASS VENTRAL	INTRABBDOMINAL MASS	INTRAABDOMINAL MASS VENTRAL	INTRABBOOMINAL MASS	NTRAABDOMINAL MASS	INTRABBDOMINAL MASS	NTRABBOOMINAL MASS		MASS	
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OBS						DOMI	DOMI	DOMI	DOMI	DOMI	DOMI	DOMI	DOMI	DOMI	DOMI		DOMI	¥
ICAL	NORMAL	NORMAL	ORMAL	NORMAL	NORMAL	RAB	RAAB	RAAB	RAAB	RAAB	RAAB	RAAB	RAB	RAAB	RAAB	SLIGHT	RAB.	IANA
CLIN	NOR	NOR	NOR	NOR	NOR	INI	INI	INT	INI	INI	INI	INI	INI	INI	INI	SLI	INI	P.E.R
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WEIGHT (GRAMS)	387	396.0	411	416	424	419	422.0	408.0	418.0		426.0	418.0		407.0				
TOR	37	9,	37	37	86	37	9/	37	37	37	67	20	37	37	37		37	
PERA	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0000337	034567	0002920	0000337	0000337	0000337		0000337	
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TIME	8:56:16	1:29:40	:28:18	:52:16	:25:44	:19:28	:43:30	:37:54	7:49:02	:38:26	:49:18	3:54:08	8:12:54	8:08:50	:29:40		9:58:44	
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DATE	2/14	3/14/85	4/11/85	5/09/85	9/06/85	//02/85	8/01/85	8/53/85	9/26/85	0/16/85	0/24/85	1/21/85	2/04/85	2/19/85	98/90/		98/60/1	
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INDIVIDUAL ANIMAL HISTORIES (cont.): h Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00061

OPERATOR (GRAMS) CLINICAL OBSERVATIONS WEIGHT TIME DATE

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, EUTHANIZED STAIN BROWN NOSE SLIGHT SCAB RIGHT EAR SLIGHT SCAB RIGHT EAR SLIGHT SCAB RIGHT EAR SLIGHT SCAB RIGHT EAR SLIGHT NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 410.0 414.0 412.0 413.0 417.0 402.0 40.0 404.0 404.0 400.0 412.0 403.0 0000337 0000337 0000337 0034567 0010186 0000337 0000337 0000337 0078478 0000337 0000337 0001576 0000337 000292 0000337 0000337 0000337 8:56:42 7:58:06 8:29:00 7:52:48 8:26:18 7:29:04 7:29:04 7:39:12 9:12:48 7:50:18 7:50:18 8:10:46 9:21:46 8:10:46 9:01:40 8:30:10 7/02/85 8/01/85 8/29/85 9/10/85 4/11/85 5/09/85 11/21/85 12/19/85 1/16/86 1/27/86 3/04/85 3/12/85 3/14/85 6/06/85 6/19/85 10/24/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 26 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00062 Species: D Sex: MALE Group: 100 UL/ANM

	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	SCAB RIGHT EAR SLIGHT	SCAB RIGHT EAR SLIGHT	NORMAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	IN FRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	SCAB RIGHT EAR SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	SCAB RIGHT EAR MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	SCAB RIGHT EAR MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EMACIATED MODERATE, PALLOR MODERATE				
	WEIGHT (GRAMS)	376.0	•	386.0	397.0	402.0	405.0	408.0	410.0	406.0	407.0	412.0		408.0			
)	OPERATOR	0000337	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0000337	0002920	0000337	0000337	
	TIME	8:57:04	8:02:42	8:30:34	8:30:00	7:53:12	8:26:58	7:22:58	8:44:38	7:40:12	7:50:44	7:50:56	8:09:06	13:57:58	8:16:40	10:37:08	
	DATE	2/14/85	3/12/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/06/85	11/21/85	12/04/85	12/11/85	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (1 START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00063 Species: D Sex: MALE Group: 10 UL/ANM

LARGE, STAIN BROWN NOSE SLIGHT MEDIUM, EUTHANIZED MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM LARGE LARGE LARGE LARGE SIZE L MASS VENTRAL TO LIVER S.
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L MASS VENTRAL TO LIVER S. CLINICAL OBSERVATIONS INTRAABDOMINAL INTRAABDOMINAL INTRABBDOMINAL INTRAABDOMINAL INTRABBOOMINAL INTRABBOOMINAL INTRABBOOMINAL INTRABBDOMINAL INTRABBDOMINAL INTRABBDOMINAL INTRABBDOMINAL INTRABBOOMINAL INTRAABDOMINAL NORMAL NORMAL NORMAL (GRAMS) 432.0 435.0 443.0 448.0 447.0 443.0 441.0 456.0 452.0 447.0 453.0 428.0 WEIGHT OPERATOR 00000337 00000337 00000337 0010186 7550000 0078478 0000337 0000337 0001576 0034567 0002920 0000337 0000337 0000337 0000337 0000337 0000337 7:24:02 7:41:12 7:51:34 8:11:38 9:22:40 7:52:08 8:35:38 8:30:38 7:55:34 7:39:54 8:28:04 7:45:28 14:00:34 8:19:54 8:37:18 TIME 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 4/11/85 5/09/85 11/21/85 5/22/85 1/27/86 3/14/85 10/24/85 1/16/86 12/19/85

INDIVIDUAL ANIMAL HISTORIES (cont.): [m Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 28
DATE: 6/09/87
TIME: 14:40:13
EDSO17 V4M11

ANIMAL HISTORY

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CONT				EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE
Group: CONTROLS	WEIGHT (GRAMS) CLINICAL OBSERVATIONS			CORNEAL OPACITY LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT
Gr	ERVA			CITY	OPACITY	OPACITY	CORNEAL OPACITY	OPACITY	CORNEAL OPACITY	OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	OPACITY	CORNEAL OPACITY	OPACITY
MALE	088			OPA	OPA	OPA	OPA	OP.A	OPA	OPA	OPA	OPA		OPA	OPA
ž	ICAL	NORMAL	ORMAL	NEAL	CORNEAL	CORNEAL	NEAL	CORNEAL	NEAL	CORNEAL	NEAL	NEAL	CORNEAL	NEAL	CORNEAL
Sex:	CLIN	ON ON	NO	S	S	COR	S	S	COR	COR	COR	COR	COR	COR	CO
Q	WEIGHT (GRAMS)	392.0	397.0	0.9	1.0	395.0	7.0	7.0	0.6	7.0	3.0		1.0	394.0	0.9
	WE I	966	39	39	\$	33	39	38	39	40	40		40	39	36
Species: D	OPERATOR	0000337	0000337	0000337	0010186	000337	0001576	0000337	0000337	034567	1002920	0000337	000337	0000337	0000337
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0064	ea ea	146	:34	:16	: 42	:54	: 02	90:	:26	:38	36	:52	:24	:46	:46
Animal ID: 84D00064	TIME	8:57:46	8:31:34	7:56:16	8:29:42	7:25:54	8:46:02	7:42:06	7:52:26	7:53:38	4:01:36	8:21:52	8:12:24	9:23:46	8:39:46
ID:		្រស្	5	2	5	2	ñ	Š	5	2	_	5	Š	9	9
lmal	DATE	2/14/85	1/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	0/24/85	1/21/85	2/04/85	2/19/85	/16/86	/27/86
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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYAHO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00066

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	418.0 NORMAL STAIN REDGEN NOSE SLIGHT
WEIGHT (GRAMS)	418.0
OPERATOR	
TIME	2/14/85 8:58:10 0000337 3/04/85 8:00:14 0000337
DATE	2/14/85

											•			SLIGHT	SLIGHT	SLIGHT, EUTHANIZED
1		SLIGHT														••
		SL													EXE	
		NOSE														LEFT
		BROWN												LENS	LENS	LENS
	NORMAL		NORMAL	NORMAL	OPAQUE	OPAQUE	OPAQUE									
j	418.0			428.0	434.0	437.0	435.0	425.0	430.0	429.0	431.0	434.0	421.0	424.0	419.0	395.0
	7660000	0000337	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337	0000337
	8:58:10	8:00:14	8:04:26	8:36:40	8:32:14	7:56:56	8:30:14	7:26:26	8:46:22	7:42:38	7:52:50	7:54:04	14:02:40	8:12:58	9:24:10	8:41:06
	2/14/85	3/04/85	3/12/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/27/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

30 6/09/87

TIME: 14:40:13

V4M11

EDS017 DATE:

ANIMAL HISTORY

RIGHT EYE SLIGHT RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT SCAB RIGHT EAR MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT SCAB RIGHT EAR MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT SCAB RIGHT EAR SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT SCAB RIGHT EAR SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCT:VITIS LEFT EYE MODERATE CONJUNCT VITIS LEFT EYE MODERATE, SCAB RIGHT EAR SLIGHT CONJUNCT:VITIS LEFT EYE MODERATE, SCAB RIGHT EAR SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM SCAB RIGHT EAR MODERATE, CORNEAL OPACITY SCAB RIGHT EAR MODERATE, CORNEAL OPACITY CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS LEFT EYE MARKED, CONJUNCTIVITIS LEFT EYE MARKED, Group: 100 UL/ANM SCAB RIGHT EAR SLIGHT CLINICAL OBSERVATIONS EYE MODERATE EYE MODERATE EYE MODERATE EYE MARKED EYE MARKED MAL (GRAMS) 420.0 419.0 422.0 423.0 429.0 427.0 WEIGHT Species: D OPERATOR 0000337 0000337 0000337 0078478 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0010186 0000337 0000337 Animal ID: 84D00067 8:58:32 6:47:12 7:24:28 7:57:22 7:49:20 7:34:08 7:26:58 8:49:28 8:37:06 8:14:46 7:33:34 9:46:22 8:33:04 8:30:44 TIME 2/14/85 3/14/85 7/02/85 4/24/85 5/02/85 5/07/85 5/09/85 5/14/85 6/04/85 6/19/85 2/05/85 2/13/85 4/11/85 6/06/85

CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MARKED, CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, 4.77.0 414.0 430.0 427.0 0001576 0000337 0000337 0034567 0000337

7:53:16

7:49:52

8:46:38 7:43:04

8/01/85

8/29/85 9/26/85 10/16/85

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED LARGE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE INTRAABDOMINAL MASS VENTRAL TO LIVER CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, 401.0 391.0 369.0 0000337 0084799 0084799 9:24:46 8:42:52 8:14:00

CORNEAL OPACITY BOTH EYE SLIGHT,

404.0

0002920

14:03:04

11/21/85

12/19/85

1/16/86 1/27/86

7:54:26

10/24/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE STUDY: 0083009 START DATE: COMPOUND:

DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11 H

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00068

CLINICAL OBSERVATIONS (GRAMS) WEIGHT OPERATOR TIME DATE

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY RIGHT SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, CORNEAL OPACITY RIGHT EYE SLIGHT, MULTIPLE SKIN LESIONS (PUSTULES) TAIL SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, MULTIPLE LESIONS ON TAIL, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, INTRAABDOMINAL MASS DORSAL TO LIVER SIZE SMALL MULTIPLE SKIN LESIONS (PUSTULES) TAIL MARKED CORNEAL OPACITY RIGHT EYE SLIGHT, MULTIPLE LESIONS (PUSTULES)TAIL SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT EXE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE RIGHT CORNEAL OPACITY RIGHT RIGHT CORNEAL OPACITY RIGHT CORNEAL OPACITY CORNEAL OPACITY 439.0 448.0 430.0 439.0 420.0 427.0 417.0 407.0 377.0 0000337 0000337 8:45:50 0084799 0000337 0078478 0001576 0084799 0034567 0002920 0000337 0000337 0000337 0000337 0000337 7:56:44 7:52:26 8:14:58 9:26:20 8:59:30 8:40:00 8:36:10 7:59:18 7:54:28 14:05:12 8:33:08 7:29:06 8:47:54 7:45:44 5/09/85 6/06/85 1/27/86 1/16/86 0/16/85 11/21/35 12/19/85 3/14/85 4/11/85 7/02/85 8/01/85 8/29/85 9/26/85 10/16/85 10/24/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLL START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 32 DATE: 5/09/87 TIME: 1:40:13 EDS017 VIMII

ANIMAL HISTORY

Animal ID: 84D00069 Species: D Sex: MALE Group: 100 UL/ANM

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS
2/14/85	8:59:58	0000337	456.0	CORNEAL OPACITY BOTH EYE SLIGHT
2/16/85	8:06:56	0078478	452.0	CORNEAL OPACITY BOTH EYE SLIGHT
3/12/85	8:06:46	0000337		CORNEAL OPACITY BOTH EYE SLIGHT, SCAB RIGHT EAR MODERATE
3/14/85	8:40:30	0078478	452.0	CORNEAL OPACITY BOTH EYE SLIGHT, SCAB RIGHT EAR MODERATE
4/02/85	8:17:32	0000337		
4/11/85	8:37:02	0000337	454.0	
5/09/85	7:59:44	0000337	497.0	CORNEAL OPACITY BOTH EYE SLIGHT
6/06/85	8:33:44	0010186	463.0	CORNEAL OPACITY BOTH EYE SLIGHT,
				INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
7/02/85	7:29:54	0000337	466.0	CORNEAL OPACITY BOTH EYE SLIGHT,
				INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
8/01/85	8:48:22	0001576	481.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, CORNEAL OPACITY BOTH EYE
				SLIGHT
8/53/85	7:46:18	0000337	470.0	CORNEAL OPACITY BOTH EYE SLIGHT,
				INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
9/26/85	7:56:20	0000337	442.0	CORNEAL OPACITY BOTH EYE SLIGHT,
				INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
10/03/85	8:12:28	0002920	410.0	EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Species: Animal ID: 84D00070

Sex: MALE Group: 10 UL/ANM	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	_	NORMAL	_		PROLAPSED LENS RIGHT		OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED.	0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL	OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED,	۰.	۵.	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED	PALLOR MARKED, INTRAABDOMINAL MASS SPLENIC SIZE LARGE,	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED,	BLOODY DISCHARGE EYES NOSE MOUTH
٠ :	WEIGHT (GRAMS)	387.0	385.0	390.0	394.0	401.0	411.0	397.0	409.0	416.0			374.0	362.0				
Specie	OPERATOR	0000337	0078478	0000337	0010186	0000337	0001576	0000337	0000337	0034567		0084799	 0002920	0000337		0084799		
840000 10	TIME	9:00:20	8:42:52	8:38:02	8:37:52	7:31:38	8:49:12	7:47:24	7:57:32	7:57:04 0034567		8:15:56 0084799	14:11:00	8:18:56		(0:42:24		
Animal ID: 84DUU0/0 Species: D Sex:	DATE	2/14/85	3/14/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85		11/06/85	11/21/85	12/19/85		12/23/85 10:42:24 0084799		

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

_			CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-
OUND:	ISOBUTYL 2-	ISOBUTYL 2-CYANOACRYLATE	ACKILATE (18C) IN MALE AND FEMALE MAIS.
T DATE: 1/28/85	1/28/85		
			VOCHATH TEMINA

PAGE 34 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO- S ACRYLATE (IBC) IN MALE AND FEMALE RATS.	ANIMAL HISTORY	Sex: MALE Group: 10 UL/ANM	CLINICAL OBSERVATIONS	RIGHT	PROLAPSED LENS RIGHT ETE MOJEMATE, OFAQUE LENS ATOMT ETE MARKED PROLAPSED LENS RIGHT EYE, OPAQUE LENS RIGHT EYE MARKED	RIGHT	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED	PROLAPSED LENS RIGHT FIE PARRED, OFAQUE LENS RIGHT MARKED	OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED	OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED, MICROOPTHALMIA RIGHT EYE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPAQUE LENS RIGHT EYE MARKED,PROLAPSED LENS RIGHT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED, Intraabdominal mass ventral to liver size medium	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, OPAQUE LENS RIGHT EYE MARKED INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, SMALL LENS RIGHT EYE WITH OPACITY	INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, SMALL LENS RIGHT EYE WITH OPACITY, EUTHANIZED
2-CYANOACRYLATE			WEIGHT (GRAMS)	425.0	425.0		,	444.0	446.0	460.0	450.0	453.0	454.0	453.0	454.0	409.0
		Species: D	OPERATOR	0000337	0084/99	0000337	0000337	0000337	0000337	0001576	0000337	0000337	0034567	0002920	0000337 0000337	0034567
3009 I		84000071	TIME	9:00:36	8:43:28	8:18:32	6:48:24	8:39:44	7:33:18	8:49:56	7:48:30	7:59:42	8:03:10	14:14:46	8:21:44 9:28:44	7:42:10
STUDY: 0083009 COMPOUND:	SIANI DAIE	Animal ID: 84D00071	DATE	2/14/85	3/14/85 4/11/85	4/24/85	5/02/85	5/09/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85 1/16/86	1/29/86

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

ANIMAL HISTORY Group: 10 UL/ANM MALE Species: D Sex: Animal ID: 84D00072

		IUM MEDIUM S. MEDIUM	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM STAIN BROWN NOSE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SOFT SIZE SMALL	S MALL MEDIUM MEDIUM MEDIUM	LARGE LARGE MEDIUM
ფ .		NTRARABOMINAL MASS VENTRAL TO LIVER MEDIUM NTRARABDOMIAL MASS VENTRAL TO LIVER SIZE MEDIUM NTRARABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM STAIN BROWN NOSE SLIGHT, INTRAABDOMINAL MASS VENT	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRABABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRABBOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRABBOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRABBOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRABBOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRABBOMINAL MASS SIZE MEDIUM, EUTHANIZED
WEIGHT ERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL NORMAL NORMAI	INTRABBOOMINAL MASS INTRABBOOMINAL MASS INTRABBOOMINAL MASS	INTRABBOOMINAL MASS INTRABBOOMINAL MASS STAIN BROWN NOSE SL)	INTRAABDOMINAL MASS INTRAABDOMINAL MASS INTRAABDOMINAL MASS INTRAABDOMINAL MASS	INTRAMBOOMINAL MASS INTRAMBOOMINAL MASS INTRAMBOOMINAL MASS INTRAMBOOMINAL MASS INTRAMBOOMINAL MASS
WEIGHT (GRAMS)	438.0	418.0 418.0	459.0 446.0 460.0	461.0	458.0 464.0 431.0 404.0
OPERATOR	00000337	0000337 0010186 0000337	0001576 0000337 0000337	0000337 0000337 0034567	0002920 0000337 0000337
TIME	9:03:54 8:46:08 8:39:56	8:01:58 8:40:44 7:34:06	8:50:44 7:51:30 8:27:04	8:43:08 8:00:56 8:30:12 8:20:34	14:17:30 8:23:56 9:30:36 7:44:52
DATE	2/14/85 3/14/85 4/11/85	5/09/85 6/06/85 7/02/85	8/01/85 8/29/85 9/26/85	10/02/85 10/16/85 10/24/85	11/21/85 12/19/85 1/16/86 1/29/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE AC
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 36 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00073 Species: D Sex: MALE Group: CONTROLS

	OBSERVATIONS
	CLINICAL
WEIGHT	(GRAMS)
	OPERATOR
	TIME
	DATE

													SLIGHT				
1		LIGHT											T EYE S				۵
i		NOSE SLIGHT											CONJUNCTIVITIS LEFT EYE				EUTHANIZED
i	1	STAIN BROWN	-j	بِ	-7	-7	بر.	-1	-j	-1	-1	-1	NCTIVI	-j	-3	Ļ	•
	NORMAL	STAIN	NORMAL	CONJ	NORMAL	NORMAL	NORMAL	NORMAL ,									
	336.0			338.0	342.0	344.0	356.0	352.0	362.0	353.0	363.0	362.0		354.0	355.0	343.0	321.0
	0000337	0000337	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0000337	0002920	0000337	0000337	0034567
	9:04:20	8:03:40	8:08:46	8:46:34	8:41:14	8:04:12	8:43:02	7:35:00	8:53:00	7:52:24	8:28:54	8:31:26	8:22:28	14:18:24	8:24:48	9:31:38	7:47:14
	2/14/85	3/04/85	3/12/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/06/85	11/21/85	12/19/85	1/16/86	1/29/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00074 Species: D Sex: MALE Group: 100 UL/ANM

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL 415.0 416.0 423.0 428.0 436.0 440.0 354.0 0010186 0000337 0001576 0000337 0000337 0078478 0000337 8:43:40 7:36:00 8:54:12 7:52:58 11:29:06 8:42:00 8:04:38 8:47:30 9:04:46 TIME 6/06/85 7/02/85 8/01/95 8/29/85 2/14/85 3/14/85 4/11/85 5/09/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 38 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84000075 Species: D Sex: MALE Group: CONTROLS

2/14/85 9: 3/14/85 8: 4/11/85 8: 5/09/85 8:			(GKAMS)	CLINICAL	CLINICAL UBSERVATIONS
	05:14	0000337	376.0	NORMAL	
	47:54	0078478	376.0	NORMAL	
	42:46	0000337	377.0	NORMAL	
	8:06:18	0000337	379.0	NORMAL	
6/06/85 8:	44:30	0010186	383.0	NORMAL	
7/02/85 7:	36:44	0000337	383.0	NORMAL	
8/01/85 8:	54:46	0001576	386.0	NORMAL	
8/29/85 7:	54:50	0000337	380.0	NORMAL	
9/26/85 8:	29:12	0000337	385.0	NORMAL	
10/24/85 8:	31:48	0034567	383.0	NORMAL	
11/21/85 14:	14:19:38	0002920	372.0	NORMAL	
	8:25:08	0000337	372.0	NORMAL	
1/16/86 9:	9:32:02	0000337	362.0	NORMAL	
1/29/86 7:	49:02	0034567	336.0	NORMAL /	/ EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Animal ID: 84D00076 Species: D Sex:

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

	4EDIUM 4EDIUM 4EDIUM 4EDIUM ARGE ARGE ARGE ARGE ARGE
SMALL LARGE	MEDIUM MEDIUM MEDIUM MEDIUM LARGE LARGE LARGE LARGE LARGE LARGE
LIVER	LIVER LIVER LIVER LIVER LIVER LIVER LIVER LIVER LIVER
5 5 5	5555555555
, , , , , , , , , , , , , , , , , , , ,	VENTRAL VENTRAL VENTRAL VENTRAL VENTRAL VENTRAL VENTRAL VENTRAL VENTRAL
MASS	MASS MASS MASS MASS MASS MASS MASS MASS
NORMAL NORMAL NORMAL NORMAL INTRAABDOMINAL INTRAABDOMINAL	INTRAABDOMINAL
385.0 397.0 400.0 404.0	399.0 400.0 390.0 391.0 387.0 387.0 387.0
0000337 0078478 0000337 0000337 0000337	0010186 0001377 0000337 0000337 0034567 0002920 0000337
9:05:32 8:48:16 8:43:26 8:06:38 7:42:24	8:45:06 7:37:16 8:54:58 7:55:20 8:29:40 8:02:10 14:20:12 8:25:28 9:32:28
2/14/85 3/14/85 3/14/85 4/11/85 5/09/85 5/22/85 6/04/85	6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 10/16/85 11/21/85 12/19/85 1/16/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 40
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00077 Species: D Sex: MALE Group: 100 UL/ANM

LARGE, EUTHANIZED STAIN BROWN NOSE SLIGHT
NORMAL
NORMAL
NORMAL
NORMAL
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
CLINICAL OBSERVATIONS NORMAL WEIGHT (GRAMS) 460.0 462.0 452.0 445.0 444.0 444.0 443.0 422.0 429.0 379.0 461.0 OPERATOR 0010186 0002920 0000337 0000337 0067831 00000337 0000337 0078478 0001576 0034567 0000337 0000337 0000337 0034567 7:56:08 8:30:28 8:33:56 14:21:18 8:26:16 9:33:16 8:07:02 8:10:58 8:45:58 8:44:20 8:55:34 8:48:38 8:28:16 7:38:14 TIME 4/15/85 5/09/85 5/22/85 6/06/85 7/02/85 8/01/85 9/26/85 10/24/85 1/16/86 1/29/86 3/14/85 4/11/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00078 Species: D Sex: MALE Group: 100 UL/ANM

	INTERABDOMINAL MASS VENTRAL TO LIVER INTERABDOMINAL MASS VENTRAL TO LIVER, SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SLIGHT, INTRAABDOMINAL MASS SPLENIC SIZE LARGE, STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SLIGHT, INTRAABDOMINAL MASS SPLENIC SIZE LARGE STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SLIGHT, INTRAABDOMINAL MASS SPLENIC SIZE LARGE STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SLIGHT, INTRAABDOMINAL MASS SPLENIC SIZE LARGE
	10 11 11 11 11 11 11 11 11 11 11 11 11 1
	VENTRAL TOENTRAL TOEN
TIONS	MASS MASS MASS MASS MASS MASS MASS MASS
CLINICAL OBSERVATIONS	INTERABDOMINAL MASS VENTRAL TO LIVER INTERABDOMINAL MASS VENTRAL TO LIVER, SIZE MEDI INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDI INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SL INTRAABDOMINAL MASS SPLENIC SIZE LARGE STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SL INTRAABDOMINAL MASS SPLENIC SIZE LARGE STAIN BROWN HEAD MARKED, STAIN BROWN PERIANAL SL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
WEIGHT (GRAMS)	445.0 421.0 424.0 424.0 423.0 433.0 440.0 440.0 410.0 34.0 34.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 00101316 0000337 0000337 0000337 0000337 0000337
TIME	9:06:14 7:58:22 8:49:02 9:18:08 8:31:32 8:31:32 7:55:18 8:34:50 7:56:16 7:56:16 8:34:50 8:35:24 8:35:26 8:35:26 8:35:26
DATE	2/14/85 2/28/85 3/14/85 4/03/85 4/11/85 4/25/85 5/09/85 5/1-/85 6/06/85 7/02/85 8/29/85 8/29/85 11/21/85 11/21/85 12/13/86

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 42 DATE: 6/09/87 TIME: 14:40:13 EDSO17 V4M11

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00079

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL	CLINICAL OBSERVATIONS	
2/14/85	9:11:30	0000337	410.0	XYPHOID	XYPHOID PROTUBERANCE	M
3/14/85	8:50:10	0078478	420.0	XYPHOID	XYPHOID PROTUBERANCE MODERATE	MODERATE
4/11/85	8:46:46	C000337	422.0	XYPHOID	PROTUBERANCE	
5/09/85	8:09:38	0000337	425.0	XYPHOID	PROTUBERANCE SLIGHT	SLIGHT
6/04/85	7:46:28	0000337		XYPHOID	PROTUBERANCE	KYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
6/06/85	8:49:06	0010186	427.0	XYPHOID	PROTUBERANCE	KYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
7/02/85	7:39:50	0000337	432.0	INTRABE	OMINAL MASS	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT
8/01/85	8:56:54	0001576	431.0	XYPHOID	PROTUBERANCE	KYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
8/29/85	7:57:56	0000337	417.0	XXPHOID	PROTUBERANCE	KYPHOID PROTUBERANCE SMALL, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
9/26/85	8:37:08	0000337	420.0	XYPHOID	PROTUBERANCE	(YPHOID PROTUBERANCE MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
0/24/85	8:37:18	0034567	422.0	XYPHOID	XYPHOID PROTUBERANCE MODERATE,	E MODERATE,
				INTRAABL	OMINAL MASS	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
1/21/85	14:24:06	0002920	417.0	INTRAABD	NTRAABDOMINAL MASS VENTRAL	VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE MODERATE
2/19/85	8:29:20	0000337	419.0	INTRABE	NTRAABDOMINAL MASS	MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT
1/16/86	9:34:02	0000337	406.0	INTRABE	NTRAABDOMINAL MASS	VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SMALL
1/29/86	7:54:16	0084799	382.0	Intraabdom Euthanized	NTRAABDOMINAL MASS UTHANIZED	VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SMALL,

DATE: TIME: EDS017

INDIVIDUAL ANIMAL HISTORIES (cont.): h Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00080

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, CORNEAL OPACITY RIGHT EYE INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY RIGHT EYE SLIGHT, INTRAABDOMINAL MASS SIZE MEDIUM CORNEAL OPACITY RIGHT EYE SLIGHT, STAIN BROWN NOSE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY RIGHT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLICHT CORNEAL OPACITY RIGHT EYE SLICHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CLINICAL OBSERVATIONS SLIGHT (GRAMS) 398.0 400.0 407.0 409.0 424.0 420.0 WEIGHT 419.0 423.0 409.0 OPERATOR 0000337 0078478 0000337 0001576 0000337 0000337 0034567 0000337 0010186 0000337 0000337 0000337 0000337 0000337 7:59:508:38:24 8:49:08 8:47:36 7:40:48 8:57:52 8:53:08 8:38:52 9:13:10 8:10:46 7:27:22 8:51:24 8:50:38 7:51:04 TIME 6/06/85 6/19/85 8/29/85 9/26/85 10/16/85 2/14/85 6/20/85 7/02/85 8/01/85 8/13/85 10/24/85 3/14/85 4/11/85 5/09/85

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 44 DATE: 6/09/87 TIME: 14:40:13 EDSO17 V4M11

ANIMAL HISTORY

Animal ID: 84D00081 Species: D Sex: MALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

STAIN BROWN NOSE SLIGHT
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
SUBCUTANEOUS MASS PERIHUMERUS RIGHT SIDE SIZE LARGE
SUBCUTANEOUS MASS PERIHUMEROUS RIGHT SIDE SIZE LARGE
SUBCUTANEOUS MASS RIGHT SIDE SIZE LARGE
SUBCUTANEOUS MASS RIGHT SIDE PERIHUMERUS SIZE LARGE
* No observations recorded. 402.0 403.0 408.0 415.0 420.0 395.0 0000337 0000337 0000337 0010186 0000337 0000337 0000337 8:51:02 7:45:40 8:58:48 8:52:06 12:28:58 8:13:28 8:51:52 8:48:36 8:11:10 8:07:22 2/14/85 3/04/85 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/13/85 3/12/85

TIME: 14:40:13

V4M11 6/09/87

EDS017

45

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE STUDY: 0083009 STARI DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00082

CLINICAL OBSERVATIONS

(GRAMS)

OPERATOR

TIME

DATE

WE IGHT

SLIGHT, ALOPECIA BOTH FRONT LEG SLIGHT ALOPECIA BOTH HIND LEG SLIGHT, ALOPECIA PERIANAL SLIGHT, ALOPECIA MOUTH SLIGHT ALOPECIA BOTH HIND LEG SLIGHT, ALOPECIA PERIANAL SLIGHT, ALOPECIA MOUTH SLIGHT ALOPECIA PERIANAL SLIGHT, ALOPECIA BOTH HIND LEG SLIGHT, ALOPECIA MOUTH SLIGHT ALOPECIA PERIANAL SLIGHT, ALOPECIA BOTH HIND LEG SLIGHT, ALOPECIA MOUTH SLIGHT WIDESPREAD PATCHY ALLOPECIA PRIMARILY OF VENTRAL ASPECT AND FACE, STAIN BROWN ALOPECIA BOTH HIND LEG MODERATE, ALOPECIA PERIANAL MODERATE, ALOPECIA MOUTH WIDESPREAD PATCHY ALOPECIA PRIMARILY OF VENTRAL ASPECT AND FACE WIDESPREAD PATCHY ALOPECIA PRIMARILY OF THE VENTRAL ASPECT AND FACE WIDESPREAD PATCHY ALOPECIA PRIMARILY OF THE VENTRAL ASPECT AND FACE WIDESPREAD PATCHY ALOPECIA PRIMARILY OF THE VENTRAL ASPECT AND FACE SCAB TAIL MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM SCAB TAIL MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, GENERALIZED PATCHY ALLOPECIA WITH DERMAL LESIONS DORSAL TAIL. GENERALIZED PATCHY ALLOPECIA WITH DORSAL LESIONS TAIL, GENERALIZED PATCHY ALOPECIA WITH DERMAL LESIONS DORSAL TAIL ALOPECIA PERIANAL SLIGHT, ALOPECIA BOTH HIND LEG SLIGHT ALOPECIA POTH HIND LEG SLIGHT GENERALIZED PATCHY ALOPECIA MARKED, SCAB TAIL MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE SUBCUTANEOUS MASS DORSAL MIDLINE SIZE SMALL SUBCUTANEOUS MASS DORSAL MIDLINE SIZE SMALL, SUBCUTANEOUS MASS DORSAL MIDLINE SIZE SMALL SUBCUTANEOUS MASS DORSAL MIDLINE SIZE SMALL GENERALIZED PATCHY ALLOPECIA MARKED, GENERALIZED PATCHY ALOPECIA MARKED, PATCHY GENERALIZED ALOPECIA MARKED, WIDESPREAD PATCHY ALOPECIA NOSE SLIGHT 445.0 439.0 436.0 438.0 441.0 450.0 397.0 446.0 147.0 437.0 439.0 422.0 00000337 0000337 0000337 0010186 0034567 0000337 0078478 0000337 0001576 0084799 0084799 0002920 0084799 0000337 0000337 0000337 0000337 0000337 0000337 0034567 7:57:38 10:17:26 8:25:40 8:11:48 14:27:02 8:31:10 9:13:54 8:14:30 8:53:50 8:14:48 8:24:00 8:49:44 8:51:26 1:47:54 9:00:28 8:01:02 8:39:50 8:46:46 1/16/86 4/11/85 1/29/86 2/13/85 2/14/85 3/12/85 3/14/85 3/21/85 4/02/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 0/24/85 11/06/85 12/19/85

SUBCUTANEOUS MASS DORSAL MIDLINE SIZE SMALL, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (ISTART DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 46
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84000083 Species: D Sex: MALE Group: 10 UL/ANM

	MASS ON LIVER, MEDIUM MASS VENTRAL TO LIVER, SIZE SMALL MASS VENTRAL TO LIVER SIZE SMALL MASS VENTRAL TO LIVER SIZE MEDIUM
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	NORMAL STAIN BROWN NOSE SLIGHT NORMAL INTRAABDOMINAL MASS ON LIVER, MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER
WEIGHT (GRAMS)	405.0 405.0 410.0 410.0 411.0 411.0 415.0 405.0 392.0
OPERATOR	0000337 0078478 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	9:14:26 8:55:35 8:55:35 8:55:32 9:55:32 7:14:26 7:15:32 7:32:35 7:32:35 8:41:52 8:41:52 8:41:52 8:41:52 8:41:52 8:41:52
DATE	2/14/85 3/12/85 3/14/85 4/11/85 4/25/85 5/09/85 6/06/85 6/20/85 1/02/85 11/21/85 1/21/85 1/21/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84000084 Species: D Sex: MALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85 9:14:52 0000337 434.0 NORMAL STAIN BROWN NOSE SLIGHT 3/12/85 8:09:10 0000337 NORMAL NORMAL NORMAL 4/11/85 8:55:40 0000337 446.0 NORMAL 5/09/85 8:15:38 0000337 460.0 NORMAL 6/15:38 0000337 460.0 NORMAL 6/16/85 8:53:28 0010186 462.0 NORMAL 6/16/85 9:02:28 0000337 467.0 NORMAL 6/16/85 9:02:28 0000337 473.0 NORMAL 6/16/85 8:42:52 0000337 473.0 NORMAL 10/24/85 8:50:16 0034567 473.0 NORMAL 10/24/85 9:05:18 0034567 474.0 * No observations recorded.

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 48
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00085 Species: D Sex: MALE Group: 100 UL/ANM

	XYPHOID PROTUBERANCE SLIGHT XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM XYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM XYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM XYPHOID PROTUBERANCE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM XYPHOID PROTUBERANCE MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE XYPHOID PROTUBERANCE MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, XYPHOID PROTUBERANCE SLIGHT
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	XYPHOID PROTUBERANCE SLIGHT XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SMALL XYPHOID PROTUBERANCE SLIGHT, IN XYPHOID PROTUBERANCE MODERATE, INTRAABDOMINAL MASS VENTRAL TO
WEIGHT (GRAMS) CLIN	369.0 XYP 387.0 XYP 387.0 XYP 387.0 XYP 405.0 XYP 405.0 XYP 411.0 XYP 416.0 XYP 416.0 XYP 410.0 XYP 410.0 XYP 410.0 XYP 410.0 INT 403.0 INT
OPERATOR (G	0000337 0000337 00000337 00000337 00000337 00001576 00001576 00000337 00002920 00002920 0000337 0000337
TIME	9:15:26 8:56:20 8:56:20 8:56:14 8:15:58 7:54:18 8:53:58 8:04:48 8:43:10 8:50:46 8:35:26 8:35:26 8:04:14
DATE	2/14/85 3/14/85 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/29/85 9/26/85 11/21/85 11/21/85 11/21/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Group: CONTROLS MALE Species: D Sex: WEIGHT Animal ID: 84D00086

DATE	TIME	OPERATOR	(GRAMS)	OPERATOR (GRAMS) CLINICAL OBSERVATIONS
2/14/85	9:16:18	0000337	428.0	NORMAL
3/04/85	8:10:38	0000337		STAIN BROWN NOSE SLIGHT
3/14/85	8:57:04	0078478	443.0	NORMAL
4/11/85	8:57:30	0000337	443.0	NORMAL
5/09/85	8:16:48	0000337	441.0	NORMAL
6/06/85	8:55:28	0010186	446.0	NORMAL
7/02/85	7:51:32	0000337	437.0	NORMAL
8/01/85	9:04:16	0001576	438.0	NORMAL
8/29/85	8:06:08	0000337	441.0	NORMAL
9/26/85	8:44:36	0000337	438.0	NORMAL
10/24/85	8:51:42	0034567	439.0	NORMAL
11/21/85	14:36:20	0002920	437.0	NORMAL
12/19/85	8:36:38	0000337	435.0	NORMAL
1/16/86	10:22:36	0000337	421.0	NORMAL
1/29/86	8:06:20	0034567	395.0	NORMAL / EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (7BC)
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (7BC) IN MALE AND FEMALE RAIS.

PAGE 50 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00087 Species: D Sex: MALE Group: CONTROLS

	SLIGHT SLIGHT LIGHT LIGHT MARKED MARKED, EUTHANIZED	
	SLIGHT SLIGHT LIGHT MARKED MARKED	
	EYE SL	
TIONS	RIGHT EYE RIGHT EYE E MODERATE LEFT EYE S RIGHT EYE RIGHT EYE	
OBSERVA	CORNEAL OPACITY RIGHT EYE SLIG CORNEAL OPACITY RIGHT EYE SLIG NORMAL NORMAL STAIN BROWN NOSE MODERATE STAIN BROWN NOSE MODERATE NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL CONJUNCTIVITIS LEFT EYE SLIGHT NORMAL NORMAL CONJUNCTIVITIS RIGHT EYE MARKEL	
CLINICAL OBSERVATIONS	CORNEAL CORNEAL NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL CONJUNC CONJUNC	
WEIGHT (GRAMS)	435.0 431.0 431.0 439.0 424.0 444.0 457.0 457.0 457.0 457.0	
WEIGHT OPERATOR (GRAMS)	0000337 0000337 0000337 0010186 0000337 0000337 0000337 0000337 0000337	
TIME	9:16:42 8:51:28 8:58:12 8:17:10 8:55:50 7:52:08 9:04:42 8:04:42 8:52:00 8:37:04 14:36:54	
DATE	2/14/85 3/14/85 3/14/85 4/11/85 5/09/85 6/06/85 6/20/85 1/02/85 9/26/85 10/24/85 11/21/85 11/21/85 1/16/86	

STUDY: 0083009

COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (I
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00088 Species: D Sex: MALE Group: 10 UL/ANM

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL 398.0 401.0 401.0 406.0 416.0 415.0 424.0 409.0 416.0 405.0 386.0 0078478 0000337 0000337 0000337 0000337 0034567 0002920 0000337 0084799 0034567 0010186 0084799 0000337 0001576 8:58:22 8:59:22 8:17:32 7:52:46 8:45:18 8:52:26 14:39:04 10:23:34 7:39:54 8:07:00 8:56:18 TIME 6/06/85 6/20/85 7/02/85 8/01/85 9/26/85 10/24/85 11/21/85 17/19/85 4/11/85 5/09/85 3/14/85 2/14/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN MI START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 52 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00089 Species: D Sex: MALE Group: 100 UL/ANM

						Σ	
						MEDIUM	-
						SIZE	
						LIVER	LIVER
						Į.	J.O.
	GHT					MASS VENTRAL TO LIVER	VENTRAL TO
ATIONS	SE SLI					MASS	MASS
CLINICAL OBSERVATIONS	IORMAL ITAIN BROWN NOSE SLIGHT IORMAL					ORMAL NTRABBOMINAL	NTRAABDOMINAL EATH
CLINICAL	NORMAL STAIN E	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	INTRAAB
WEIGHT (GRAMS)	461.0	461.0	433.0	454.0	448.0	446.0	440.0
WEIGHT OPERATOR (GRAMS)	0000337 0000337 0000337	0000337	00000337	0000337	0000337	0034567	0000337
TIME	9:17:22 8:12:16 8:20:06	8:59:04	8:17:58	7:53:46	8:08:54	8:53:12	8:38:04 10:38:46
DATE	2/14/85 3/04/85 3/12/85	3/14/85	5/09/85	7/02/85	8/29/85 9/26/85	10/24/85	12/19/85 1/14/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00090 Species: D Sex: MALE Group: 10 UL/ANM

MEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

															ARGE, EUTHANIZED
				MEDIUM	ARGE	SMALL	MEDIUM	MEDIUM	LARGE	LARGE	LARGE	LARGE	LARGE	LARGE	LIVER SIZE LARGE, E
				SIZE	IZE I	SIZE	SIZE	SIZE	SIZE	STZE	SIZE	SIZE	SIZE	SIZE	SIZE
				LIVER	LVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER
				5 T	10	2	2	S.	5	ဥ	2	5	5	10	ဥ
				VENTRAL		VENTRAL TO			VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL		
				MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS
NORMAL	NORMAL	NORMAL	NORMAL	INTRABBOOMINAL	INTRABBOOMINAL	INTRAABDOMINAL	INTRABBOOMINAL	INTRABBOOMINAL					INTRABBDOMINAL	_	INTRAABDOMINAL
422.0	435.0	435.0	432.0			427.0	438.0	432.0	435.0	429.0	434.0	427.0	430.0	423.0	393.0
0000337	0078478	0000337	0000337	0000337	0000337	0010186	0000337	0001576	0084799	0000337	0034567	0002920	0000337	0000337	0034567
9:17:38	8:59:24	9:01:52	8:18:22	8:20:20	7:59:04	8:57:16	7:54:12	9:07:14	8:09:12	8:46:56	8:53:40	14:59:42	8:38:52	10:24:24	8:11:46
2/14/85	3/14/85	4/11/85	5/09/85	5/22/85	6/04/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/29/86

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

PAGE 54 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

: 1/28/85 ANIMAL HISTORY

Animal ID: 84D00091 Species: D Sex: MALE Group: 100 UL/ANM WEIGHT DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

XYPHOID PROTUBERANCE. XYHPOID PROTUBERANCE, SCAB BACK SLIGHT XYPHOID PROTUBERANCE, SCAB BACK MODERATE XYPHOID PROTUBERANCE, SCAB BACK SLIGHT	SCAB BACK SLIGHT, XYPHOID PROTUBERANCE SLIGHT SCAB BACK SLIGHT, XYPHOID PROTUBERANCE SLIGHT SCAR BACK SLIGHT, XYPHOID PROTUBERANCE MEDIUM	SCAB BACK SLIGHT, XYPHOID PROTUBERANCE MEDIUM, INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	SCAB BACK SLIGHT, XYPHOID PROTUBERANCE MEDIUM, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	STAIN NOSE BROWN MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, XYPHOID PROTUBERANCE MODERATE	XYPHOID PROTUBERANCE MODERATE, SCAB BACK SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	DEATH
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367.0	375.0			394.0	398.0	
0000337 0078478 0000337 0000337	0078478 0000337	0000337	0000337	0010186	0000337	0034567
9:17:54 8:08:32 8:33:52 7:39:40	8:59:42 9:02:06		8:23:46	8:58:48	7:55:38	7:08:42
2/14/85 2/17/85 2/19/85 2/22/85	3/14/85 4/11/85 5/09/85	5/14/85	5/22/85	9/06/85	7/02/85	7/30/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00092 Species: D Sex: MALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

LARGE MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM MEDIUM
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386.0 398.0 401.0 403.0 394.0 394.0 392.0 406.0 4113.0 4113.0 401.0
0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
9:19:50 9:00:58 9:04:04 8:20:12 8:26:30 9:08:38 9:08:38 8:10:16 8:48:04 8:55:06 15:00:38 8:39:40
2/14/85 3/14/85 3/11/85 5/09/85 5/22/85 6/06/85 7/02/85 8/29/85 9/26/85 10/24/85 11/21/95 1/16/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

56 987 56/09

DATE:

TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00093 Species: D Sex: MALE Group: CONTROLS

SWOLLEN LIP RICHT SIDE OF FACE SLIGHT
SWOLLEN LIP RICHT SIDE OF FACE SLIGHT
MASS MAXILLARY RIGHT SIDE SIZE MEDIUM
MASS MAXILLARY RIGHT SIDE SIZE MEDIUM
MAXILLARY MASS SIZE MEDIUM, MASS LEFT SCROTAL AREA SIZE SWALL
MAXILLARY MASS SIZE LARGE, CUTANEOUS MASS SCROTUM SIZE SWALL
MAXILLARY MASS SIZE LARGE, CUTANEOUS MASS SCROTUM SIZE SWALL, EUTHANIZED CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL (GRAMS) 444.0 445.0 445.0 453.0 458.0 471.0 464.0 456.0 451.0 414.0 360.0 473.0 WEIGHT OPERATOR 0002920 0000337 0000337 0010186 0078478 0000337 0001576 0072808 0034567 0000337 0000337 0000337 0034567 0000337 9:04:46 8:20:40 9:02:50 8:00:40 9:09:32 8:56:54 9:53:54 15:01:34 8:40:48 10:26:00 10:18:36 9:20:20 8:49:00 9:01:22 TIME 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 10/24/85 11/04/85 11/21/85 12/19/85 3/14/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00094 Species: D Sex: MALE Group: 100 UL/ANM

LARGE, EUTHANIZED MEDIUM LARGE LARGE LARGE LARGE LARGE LARGE LARGE LARGE LARGE SIZE S S I Z E S S I Z E S S I Z E S S I Z E S S I Z E E S S I Z E E S S I Z E S INTRABDOMINAL MASS VENTRAL TO LIVER SIZINTRABDOMINAL MASS VENTRAL TO LIVER SIZINTRABDOMINAL MASS VENTRAL TO LIVER SIZINTRABDOMINAL MASS VENTRAL TO LIVER SIZINTRAABDOMINAL MASS VENTRAL TO LIVER SIZINTRABABDOMINAL MASS VENTRAL TO LIVER SIZINTRABBOMINAL MASS VENTRABABDOMINAL MASS VENTRABABDOMINAL MASS VENTRABBOMINAL MAS NORMAL STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL 4447.0 4445.0 4448.0 4452.0 4460.0 4444.0 414.0 436.0 WEIGHT 428.0 139.0 438.0 0000337 00000337 0000337 0000337 0010186 0001576 0000337 0000337 0000337 0078478 0000337 0000337 0000337 0000337 0034567 0002920 0000337 0000337 0000337 0034567 8:16:12 8:25:34 9:01:42 8:31:46 9:05:36 7:31:38 8:21:26 9:07:38 8:29:56 9:09:50 8:11:36 8:49:22 8:57:40 15:03:54 8:43:08 10:27:50 8:13:00 :44:56 8:01:10 8:22:14 TIME 3/04/85 3/12/85 3/14/85 4/11/85 5/07/85 5/14/85 5/22/85 6/06/85 11/21/85 1/16/86 1/29/86 8/01/85 8/29/85 2/21/85 2/22/85 4/02/85 5/09/85 7/02/85 9/26/85 0/24/85 DATE

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 58 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

100 m

												SMALL	SMALL		
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Species: D Sex:	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	0000337	0078478	0000337	0000337	0000337	0000337	0000337	0000337	0010186	0000337	0001576	0000337	0000337	
362			_	_	_	_	_	_	_	_	_	_	_	_	
84000	TIME	9:21:02	9:02:0	9:06:4	8:37:4	7:32:0	8:21:5	9:08:2	8:05:4	9:04:0	8:01:5	9:10:2	8:12:2	8:50:3	
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Animal ID: 84D00095	DATE	2/14/85	3/14/8	4/11/8	4/24/8	5/07/8	5/09/8	5/14/8	6/04/8	8/90/9	7/02/8	8/01/8	8/23/8	9/56/8	

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-

TE ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00096 Species: D Sex: MALE Group: 10 UL/ANM

WEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

INCREASED RESPIRATION DEPTH MODERATE, DECREASED RESPIRATION RATE MODERATE, WHEEZING SLIGHT, STAIN RED NOSE MARKED, STAIN RED NOSE MARKED, PALLOR MARKED, EMACIATED MODERATE, APNEA MODERATE, EUTHANIZED NORMAL 321.0 332.0 331.0 331.0 332.0 344.0 341.0 350.0 270.0 0078478 0000337 0000337 0010186 0000337 0000337 0002920 0000337 0000337 0078478 0084799 9:02:30 9:05:48 8:02:46 8:43:54 10:29:22 7:58:04 9:12:40 8:52:48 8:58:36 10:28:04 8:22:14 8:14:12 15:04:42 6/06/85 7/02/85 8/01/85 9/26/85 11/21/85 1/27/86 8/29/85 1/16/86 3/14/85 4/11/85 5/09/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 60 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00097 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

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STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 64D00098 Species: D Sex: MALE Group: CONTROLS
WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

	DATE	TIME	OPERATOR	(GRAMS)		CLINICAL OBSERVATIONS
,,,	2/14/85	9:23:36	0000337	439.0	NORMAT.	
	3/14/85	9:04:34	0078478	452.0	NORMAL	
*	4/11/85	9:09:24	0000337	455.0	NORMAL	
٠,	5/09/85	8:24:02	0000337	458.0	NORMAL	
_	6/06/85	9:36:40	0010186	466.0	NORMAL	
-	1/02/85	8:04:44	0000337	462.0	NORMAL	
∞	3/01/85	9:14:26	0001576	464.0	NORMAL	
ω	8/29/85	8:15:50	0000337	459.0	NORMAL	
5	9/26/85	8:54:08	00000337	459.0	NORMAL	
10	10/24/85	9:00:28	0034567	476.0	NORMAL	
=	11/21/85	15:08:34	0002920	451.0	NORMAL	
12	12/19/85	8:45:32	0000337	441.0	NORMAL	
_	1/16/86	10:31:38	0000337	426.0	NORMAL	
_	1/29/86	8:27:36	0034567	389.0	NORMAL /	EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

PAGE 62 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Group: 100 UL/ANM Species: D Sex: Animal ID: 84D00099

MALE

	SMALL SMALL LARGE
	S S S S S S S S S S S S S S S S S S S
	S12 S12 S12
SNO	LIXIT DEHYDRATION * No observations recorded. NORMAL NORMAL NORMAL NORMAL INTRABDOMINAL MASS PERISPLENIC SIZE INTRABBOMINAL MASS PERISPLENIC SIZE INTRABBOMINAL MASS PERISPLENIC SIZE * No observations recorded.
VAT.	TION 1 ON 1
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	LIXIT DEHYDRATION * No observations recorded. NORMAL NORMAL NORMAL NORMAL INTRABDOMINAL MASS PERISPL INTRABDOMINAL MASS PERISPL INTRABDOMINAL MASS PERISPL INTRABDOMINAL MASS PERISPL * No observations recorded.
WEIGHT (GRAMS)	301.0 333.0 371.0 372.0 347.0 386.0
OPERATOR	0000337 0000337 0000337 0000337 0010186 0000337 0000337
TIME	9:23:58 10:55:12 9:05:14 9:10:14 8:24-28 9:37:08 7:06:14 8:05:14
DATE	2/14/85 2/15/85 3/14/85 4/11/85 5/09/85 6/06/85 6/25/85 1/02/85 8/01/85

63 6/09/87

DATE:

TIME: 14:40:13 EDS017 V4M11

Appendix F (cont.): INDIVIDUAL ANIMAL HISTORIES

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE AC
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00100 Species: D Sex: MALE Group: 100 UL/ANM

OPAQUE LENS RIGHT EYE MARKED, HYPHEMIA RIGHT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, NECROSIS TAIL SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, OPAQUE LENS RIGHT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL,OPAQUE LENS RIGHT EYE MARKED, HYPHEMIA RIGHT EYE MODERATE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE,OPAQUE LENS RIGHT EYE MARKED NECROSIS TAIL SLIGHT NECROSIS TAIL SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED OPAQUE LENS RIGHT EYE MARKED OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED, HEMMORHAGE ANTERIOR CHAMBER RIGHT EYE SLIGHT OPAQUE LENS RIGHT EYE MARKED HYPHEMIA RIGHT EYE MODERATE CLINICAL OBSERVATIONS NORMAL NORMAL WEIGHT (GRAMS) 380.0 388.0 386.0 390.0 385.0 385.0 388.0 385.0 389.0 392.0 386.0 OPERATOR 00000337 0084799 0078478 0010186 0000337 0000337 0000337 0000337 0000337 0084799 0000337 0000337 0000337 8:06:30 9:16:20 8:16:36 9:00:50 8:45:56 10:43:16 9:07:40 9:05:46 9:37:22 8:54:32 15:09:42 9:27:12 9:11:44 8:25:14 TIME 7/02/85 8/01/85 1/14/86 9/26/85 11/21/85 12/19/85 2/14/85 3/14/85 4/11/85 5/09/85 6/06/85 8/29/85 10/16/85 10/24/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 64 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00101

NORMAL
SPLENIC MASS SIZE LARGE
SPLENIC MASS SIZE LARGE WEIGHT (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL 432.0 438.0 450.0 451.0 459.0 454.0 457.0 455.0 453.0 433.0 OPERATOR 0000337 0000337 0000337 0010186 0000337 0000337 0002920 0000337 0000337 9:12:28 8:26:28 9:38:28 8:07:20 8:18:50 8:56:44 9:02:30 15:13:12 8:47:08 9:27:54 9:06:08 TIME 4/11/85 5/09/85 6/06/85 7/02/85 8/21/85 9/26/85 10/24/85 11/21/85 11/19/85 1/16/86 2/14/85 3/14/85 DATE

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Species: D Sex: Animal ID: 84D00102

WEIGHT

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OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL NORMAL NORMAL NORMAL INTRAABDOMINAL MASS VENTRAL TC
CLINICAL	NORMAL NORMAL NORMAL NORMAL INTRAMB INTRAMB INTRAMB INTRAMB
(GRAMS)	400.0 406.0 412.0 412.0 424.0 428.0 403.0
OPERATOR	0000337 0078478 0000337 0000337 0010186 0000337
TIME	9:28:10 9:06:32 9:106:32 9:106:32 6:26:58 7:28:08 9:39:02 8:07:44 9:17:28 8:19:16
DATE	2/14/85 3/14/85 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

99 99

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00103

SLIGHT OPACITY RIGHT EYE OPACITY RIGHT CLINICAL OBSERVATIONS CORNEAL WEIGHT (GRAMS) 377.0 388.0 OPERATOR 0078478 0000337 9:29:06 9:06:54 TIME 2/14/85 3/14/85

CORNEAL OPACITY RIGHT EYE SLIGHT, NECROSIS TAIL SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, NECROSIS TAIL SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED CORNEAL OPACITY RIGHT EYE SLIGHT, NECROSIS TAIL SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE LARGE INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, SLIGHT SLIGHT OPACITY RIGHT EYE SLIGHT OPACITY RIGHT EYE SLIGHT OPACITY RIGHT EYE SLIGHT OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT, SLIGHT SLIGHT OPACITY RIGHT EYE OPACITY RIGHT EYE OPACITY RIGHT EYE CORNEAL CORNEA CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL 397.0 409.0 419.0 403.0 416.0 412.0 404.0 388.0 389.0 356.0 325.0 0000337 0034567 0002920 0000337 0000337 0000337 0010186 0000337 0001576 0000337 0000337 0000337 9:13:36 8:27:18 7:26:48 8:47:38 8:48:42 10:34:00 8:08:42 9:18:02 8:21:10 8:57:08 9:02:50 8:51:58 15:13:54 9:40:04 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 1/16/86 1/30/86 11/21/85 12/19/85 12/19/85 9/26/85 10/24/85 11/06/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00104

NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRAABDOMINAL MASS SIZE LARGE
STAIN BROWN NOSE MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CLINICAL OBSERVATIONS NORMAL NORMAL WEIGHT (GRAMS) 427.0 431.0 437.0 459.0 458.0 462.0 468.0 OPERATOR 0000337 0000337 0010186 0000337 0000337 0001576 0000337 0000337 0078478 0000337 0000337 8:27:52 7:25:06 9:41:38 9:18:26 8:21:32 8:57:50 9:15:26 7:10:52 8:09:44 9:07:38 TIME 4/11/85 5/09/85 5/15/85 6/06/85 6/25/85 7/02/85 8/01/85 9/29/85 2/14/85 3/14/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 68 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00106

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

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SCAB RIGHT EAR MARKED													ITZED
T EAR													CUTHAN
EGH													_
SCAB R	NORMAL	NORMAL	NORMAL	NORMAL / EUTHANIZED									
381.0	80.0	382.0											
0000337 3													
9:30:04	9:08:00	9:15:44	8:28:14	9:42:54	8:11:06	9:19:24	8:22:28	8:59:12	9:03:16	15:15:06	8:50:04	10:34:54	7:29:56
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	0/24/85	1/21/85	2/19/85	1/16/86	1/30/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00107 Species: D Sex: MALE Group: 100 UL/ANM

	FERNUM RAX SLIGHT, REX SLIGHT, SE RRAX SLIGHT, SE RRAX SLIGHT, SE SE SE SE SE SE SE SE SE S
	CORNEAL OPACITY RIGHT EYE SLIGHT SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, SCAB LEFT THORAX SLIGHT, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
	EYE SLIGHT
SERVATIONS	OPACITY RIGHT
CLINICAL OBSERVATIONS	CORNEAL OPACITY INTRABDOMINAL P
WEIGHT (GRAMS)	385.0 390.0 401.0 407.0 407.0 418.0 413.0 418.0 396.0
MEIGHT OPERATOR (GRAMS)	0000337 0000337 0000337 0010186 0067831 0000337 0001576 0000337 0000337 0000337
TIME	9:33:18 9:10:06 9:17:10 8:28:34 9:43:36 7:36:40 7:14:32 8:13:36 8:52:54 8:55:44 15:15:26 8:50:22
DATE	2/14/85 3/14/85 4/11/85 5/09/85 6/06/85 6/12/85 6/12/85 1/02/85 10/24/85 11/24/85 11/24/85 11/21/85 11/16/86

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 70 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00108

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL NORMAL NORMAL NORMAL NORMAL INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM SWOLLEN MAXILLA (UPPER JAW) LEFT SIDE 15MM X 10MM SWOLLEN MAXILLA (UPPER JAW) LEFT SIDE 15MM X 10MM, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM SWOLLEN MAXILLA LEFT SIDE, INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM * No observations recorded.
CLIN	NOR NOR NOR INT INT INT INT SWO! SWO!
WEIGHT (GRAMS)	359.0 369.0 359.0 370.0 373.0 368.0 376.0
OPERATOR	0000337 0078478 0000337 0000337 0010186 0010186 0010186
TIME	9:33:46 9:10:44 9:18:16 8:29:20 7:02:56 9:44:38 8:12:00 10:07:02 9:20:00
DATE	2/14/85 3/14/85 3/14/85 5/09/85 5/23/85 6/06/85 7/18/85 8/01/85 8/29/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

COCCEPT: TANTAK

Animal ID: 84D00109 Species: D Sex: MALE Group: 100 UL/ANM

CLINICAL OBSERVATIONS NORMAL WEIGHT OPERATOR (GRAMS) 9:34:08 9:11:48 TIME 3/14/85

NORMAL
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT,
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
CORNEAL OPACITY BOTH EYE SLIGHT, IN/CTIVE MARKED, INCREASED RESPIRATION RATE
MARKED, CHROMODACRYORRHEA MARKED, DECREASED TEMPERATURE MARKED,
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE 367.0 370.0 372.0 376.0 0000337 0000337 0000337 0000337 0000337

> 9:18:54 8:29:54 7:32:50

4/11/85 5/09/85 5/15/85 9:07:42

5/19/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOUCTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 72 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00110 WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

								SLIGHT, EUTHANIZED
	SLIGHT SLIGHT	SLIGHT SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT,
	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE
				LEFT				LEFT
	OPACITY OPACITY	OPACITY OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY
NORMAL NORMAL	د د		CORNEAL	CORNEAL	CORNEAL	CORNEAL		CORNEAL
362.0 359.0	371.0 377.0	376.0 388.0	388.0	381.0	384.0	376.0	378.0	354.0
0000337	0000337	0010186	0001576	0000337	0034567	0000337	0000337	0034567
9:34:26 9:12:14	9:19:32 8:30:20	9:45:34 8:12:52	9:22:06	9:02:54	9:04:36	8:51:36	10:36:16	7:33:40
2/14/853/14/85	4/11/855/09/85	6/06/85 7/02/85	8/01/85	9/26/85	0/24/85	2/19/85	1/16/86	1/30/86

STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ISOBUTYL 2-CYANOACRYLATE 1/28/85

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00111

	ORMAL ORMAL ORMAL ORMAL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	IORMAL IORMAL IORMAL IORMAL IORMAL IORMAL IORNAL INTRAABDOMINAL MASS VENTRAL TO INTRA MASS VENTRAL TO INTRAABDOMINAL MASS VE
CLINICAL	NORMAL NORMAL NORMAL NORMAL INTRAABI INTRAABI INTRAABI INTRAABI INTRAABI INTRAABI INTRAABI INTRAABI
	403.0 412.0 412.0 428.0 430.0 429.0 429.0 427.0 440.0
OPERATOR	0000337 0000337 0000337 0000337 00010186 0001576 0000337 0004567 0000337 0002920 0000337
TIME	9:34:48 9:13:18 9:20:00 8:30:48 7:35:08 9:46:00 8:13:32 9:22:28 8:26:30 9:54:22 15:17:54 10:36:32
DATE	2/14/85 3/14/85 3/14/85 4/11/85 6/06/85 6/06/85 7/02/85 8/29/85 10/24/85 11/21/85 11/21/85 11/21/85

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 74
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00112 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

 EAR MODERATE														IIZED
														EUTHANIZED
GHT														Ξ/
SCAB RIGHT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
395.0		393.0	403.0	414.0	417.0	407.0	403.0	401.0	401.0	407.0	397.0	394.0	384.0	362.0
0000337	0084799	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0002920	0000337	0000337	0034567
9:35:18	11:01:58	9:13:36	9:20:52	8:31:08	9:47:06	8:14:12	9:23:00	8:27:36	9:04:12	9:55:10	15:19:36	8:52:46	10:38:22	7:37:10
2/14/85	2/28/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	0/24/85	1/21/85	2/19/85	1/16/86	1/30/86

ISOBUTYL 2-CYANOACRYLATE STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00113

SIZE SMALL SIZE SMALL SIZE SMALL SIZE MEDIUM, STAIN YELLOW PERIANAL SLIGHT, INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM NO MASS PALPABLE INTRABBOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER STAIN BROWN NOSE SLIGHT, EUTHANIZED CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL (GRAMS) 405.0 391.0 394.0 402.0 412.0 403.0 414.0 403.0 413.0 391.0 WEIGHT OPERATOR 0078478 0000337 0000337 0000337 0010186 0000337 0001576 0002920 0000337 0000337 0000337 0034567 0034567 9:14:32 9:21:26 8:31:28 9:47:34 9:23:26 9:16:50 9:04:34 9:55:26 15:20:20 8:53:10 10:38:40 7:39:02 8:14:32 9:14:02 TIME 2/14/85 3/14/85 8/29/85 9/26/85 10/16/85 11/21/85 12/19/85 1/16/86 1/30/86 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85

PAGE 75 0
DATE: 6/09/87 1
TIME: 14:40:13 p

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN MAL START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 76 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 100 UL/ANM

MALE

Sex:

Species: D

Animal ID: 84D00114

	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, SCAB RIGHT EAR SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, SCAB RIGHT EAR SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, SCAB RIGHT EAR SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, SCAB RIGHT EAR SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, SCAB RIGHT EAR SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EXESLICHT CORNEAL OPACITY LEFT EXE SLIGHT CORNEAL OPACITY LEFT EXESLICHT CORNEAL OPACITY LEFT EX
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IONS	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO L
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT INTRAABDOMINAL MASS V
) CLINIC	,
WEIGHT	359.0 374.0 374.0 383.0 417.0 397.0 403.0 383.0 329.0
OPERATOR	0000337 0078478 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	9:36:26 7:55:10 9:21:50 9:21:50 6:58:24 7:34:06 8:31:50 9:23:46 9:23:46 9:20:42 9:06:32 9:06:32 9:56:42
DATE	2/14/85 3/05/85 3/14/85 3/14/85 4/11/85 5/02/85 6/06/85 7/02/85 8/29/85 8/29/85 10/16/85 11/21/85 11/21/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Animal ID: 84D00115 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT

INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE LARGE. STAIN YELLOW PERIANAL MARKED, STAIN YELLOW NOSE MARKED, STAIN YELLOW MOUTH MARKED CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, SLIGHT BOTH EYE SLIGHT BOTH EYE SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT BOTH EYE SLIGHT BOTH EYE SLIGHT BOTH EYE BOTH EYE BOTH EYE (GRAMS) CLINICAL OBSERVATIONS CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY E CORNEAL OPACITY E CORNEAL OPACITY E CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY 401.0 407.0 419.0 426.0 429.0 429.0 422.0 417.0 405.0 412.0 390.0 OPERATOR 0000337 0000337 0000337 0034567 0084799 0084799 0010186 0000337 0000337 0001576 0000337 0000337 0000337 0078478 0000337 9:23:30 8:32:30 9:48:42 8:15:32 9:24:34 9:24:20 9:07:40 9:08:46 15:41:00 9:33:18 10:39:38 9:17:00 9:45:52 TIME 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 1/16/86 1/24/86 12/19/85 11/07/85 11/21/85 3/14/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 78 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00117

Group: CONTROLS MALE Sex: Species: D

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	MORIBUND	
;	1	2	Z	2,	Z	Z	Z	Z	Z	Z	Z	Z	Z	2.	
		441.0	440.0	450.0	458.0	460.0	463.0	457.0	456.0	462.0	466.0	460.0	459.0		
		0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	
		9:37:22	9:17:36	9:24:38	8:33:08	9:49:18	8:16:10	9:25:08	9:25:18	9:08:00	9:88:68	15:44:06	9:34:04	10:44:08	
!		2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/14/86	

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 79 0 DATE: 6/09/87 TIME: 14:40:13 p. EDSO17 V4M11 H

ANIMAL HISTORY

Species: D Animal ID: 84D00118

Group: 10 UL/ANM MALE Sex:

CLINICAL OBSERVATIONS WEIGHT (GRAMS) OPERATOR TIME

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM,EMACIATED MARKED,PALLOR MODERATE,EUTHANIZED NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 443.0 424.0 427.0 458.0 428.0 428.0 464.0 467.0 465.0 456.0 403.0 352.0 0010186 0000337 0000337 0000337 0034567 00084799 0000337 0000337 0000337 0078478 9:25:16 8:33:46 9:49:50 9:25:28 9:25:56 9:25:56 9:34:46 10:40:42 8:04:24 9:17:52 4/11/85 5/09/85 6/06/85 7/02/85 8/21/85 9/26/85 10/24/85 11/21/85 11/19/85 1/16/86 3/14/85 2/14/85

JDY: 0083009 APOUND:	9 ISOBUTYL 2-CYANOACRYLATE	CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.
ART DATE: 1/28/85	1/28/85	

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Y BIOASSAY OF ISOBUTYL 2-CYANO- BC) IN MALE AND FEMALE RATS.	CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ANIMAL HISTORY		S)									SKIN LESION MIDLINE OF THE BACK SMALL	UBCUTANEOUS CYST DORSAL MIDLINE SMALL	USTULE SUBCUTANEOUS MIDLINE DORSAL SLIGHT	USTULE SUBCUTANEOUS MIDLINE DORSAL SLIGHT	
RCINOGENICIT	CARCINOGENICITY BI ACRYLATE (IBC) AN	MALE Group: CONTROLS	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS									SION MIDLINE	NEOUS CYST DO	SUBCUTANEOUS	SUBCUTANEOUS	NORMAL / EUTHANIZED
		Sex: MA	CLINICAL	NORMAL	NORMAL	NORMAL	. WAL	NORMAL	NORMAL	NORMAL	NORMAL	SKIN LE	SUBCUTA	PUSTULE	PUSTULE	NORMAL
POACRY LAT			WEIGHT (GRAMS)	396.0	400.0	406.0	415.0	420.0	413.0	425.0	433.0	437.0	433.0	433.0	413.0	371.0
ISOBUTYL 2-CYANOACRYLATE	3	Species: D	OPERATOR	0000337	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
3009 ISOBUTYL		84D00119	TIME	9:38:06	9:25:48	8:34:06	9:50:18	8:16:56	9:25:52	9:26:42	9:08:52	9:58:44	15:45:16	9:34:52	10:42:06	8:06:16
STUDY: 0083009 COMPOUND:	Two Two	Animal ID: 84D00119	DATE	2/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/30/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00120 Species: D Sex: MALE Group: CONTROLS

WEIGHT ERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	OPAQUE LENS RIGHT EXE MODERATE,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY RIGHT EYE MODERATE,	SUBCUTANEOUS MASS PERIHUMERUS RIGHT SIDE SIZE MEDIUM	CORNEAL OPACITY RIGHT EYE MODERATE,	SUBCUTANEOUS MASS PERIHUMERUS RIGHT SIDE SIZE MEDIUM.	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY RIGHT EXE MODERATE, PERIHUMERIS MASS RIGHT SIDE SIDE MEDITION	CORNEAL OPACITY RIGHT EYE MARKED, SUBCUTANEOUS MASS DEPOTHINGED CONTROL	OPAQUE LENS RIGHT EYE MARKED, SUBCUTANEOUS MASS RIGHT HIMERIC SIZE INDEE	INTRAABDOMINAL MASS SOFT SIZE MEDIUM	MORIBUND							
WEIGHT (GRAMS)	409.0	419.0	424.0	428.0	431.0	403.0	432.0	442.0	442.0				439.0				398.0	378.0		
OPERATOR	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337		0000337		0034567			0000337	0084799	0000337		0000337
TIME	9:38:24	9:19:14	9:26:20	8:34:30	9:50:46	8:17:22	9:26:08	9:27:28	9:09:12		9:21:34		10:00:20			8:03:30	15:47:32	9:36:18		10:46:22
DATE	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85		10/16/85		10/24/85					12/19/85		1/14/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

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ANIMAL HISTORY

Animal ID: 84D00121 Species: D Sex: MALE Group: CONTROLS

WEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	OPACITY RIGHT EXE MODERATE	OPAQUE LENS LEFT EXE MARKED	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM. OPAOUE LENS LEFT EVE MADKED	PROLAPSED LENS LEFT EXE MARKED, OPAQUE LENS LEFT EXE MARKED	OPAQUE LENS LEFT EXE MARKED	OPAQUE LENS LEFT EYE MARKED, EUTHANIZED	
404.0	409.0	411.0	424.0	431.0	433.0	420.0	422.0	418.0		417.0	401.0	400.0	376.0	345.0	
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0072808	0034567	0084799	0000337	0000337	0034567	
														8:08:12	
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/22/85	10/24/85	11/21/85	12/19/85	1/16/86	1/30/86	

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM

MALE

Sex:

Species: D

Animal ID: 84D00122

WEIGHT (GRAMS) CLINICAL OBSERVATIONS OPERATOR TIME DATE

NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 362.0 367.0 372.0 378.0 378.0 389.0 381.0 366.0 366.0 356.0 356.0 0000337 0078478 0000337 0000337 0010186 0000337 0000337 0000337 0034567 0084799 0000337 0000337 9:39:10 9:20:02 8:35:08 8:35:08 9:51:46 8:18:06 9:26:42 9:11:46 10:04:28 10:41:10 2/14/85 3/14/85 4/11/85 5/09/85 7/02/85 8/01/85 8/29/85 10/24/85 11/2/19/85 17/19/85 17/19/86 6/06/85

COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85 STUDY: 0083009

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

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ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00123

SCAB RIGHT EAR SLIGHT
NORMAL
WEIGHT (GRAMS) CLINICAL OBSERVATIONS 409.0 402.0 405.0 411.0 416.0 417.0 417.0 420.0 403.0 407.0 406.0 379.0 399.0 OPERATOR 0010186 0000337 0001576 0000337 0000337 0034567 0084799 0000337 0078478 0000337 0000337 0000337 0000337 0034567 9:39:32 9:20:38 9:28:02 8:35:32 9:52:26 8:35:32 9:52:26 8:18:30 9:27:00 9:27:00 9:41:36 8:47:50 10:04:26 8:12:14 TIME 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/29/85 9/26/85 11/21/85 11/21/85 1/16/86 1/16/86 2/14/85 2/28/85 DATE

HISTORIES INDIVIDUAL ANIMAL (cont.): ĵa, Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00124

INTRAABDOMINAL MASS SPLENIC SIZE LARGE LIVE ANIMAL SENT TO NECROPSY 26 SEP 1985 NOT REMOVED FROM CENSUS AT THAT TIME OPAQUE LEFT EXE MARKED,MICROOPTHALMIA LEFT EYE MARKED, INTRAABDOMINAL MASS MIDDLE ABDOMEN 20MM X 10MM OVAL NEAR THE SPLEEN OPAQUE LENS LEFT EYE MARKED, MICROOPTHALMIA LEFT EYE MODERATE, PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, MICROOPTHALMIA LEFT EYE MARKED EYE MARKED, OPAQUE LENS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED OPAQUE LENS LEFT EYE MARKED, LEFT EYE SMALLER THAN NORMAL OPAQUE LENS LEFT EYE MARKED, LEFT EYE SMALLER THAN NORMAL OPACITY LEFT EYE MARKED, MICROOPTHALMIA LEFT EYE MARKED, INTRAABDOMINAL MASS NEAR THE SPLEEN 20MM X 10MM MEDIUM INTRAABDOMINAL MASS MIDDLE ABDOMIN 20MM X 10MM OVAL PROLAPSED LENS LEFT EYE MARKED, MICROOPTHALMIA LEFT EYE MARKED CLINICAL OBSERVATIONS (GRAMS) 375.0 377.0 383.0 401.0 391.0 393.0 396.0 401.0 WE IGHT 388.0 OPERATOR 0010186 0010186 0001576 0000337 0000337 0000337 0078478 0084799 0000337 0000337 0000337 8:35:52 9:53:06 10:15:00 9:27:20 8:09:42 9:28:42 8:19:02 9:31:22 9:12:52 9:40:28 9:52:6 TIME 4/11/85 5/09/85 6/06/85 10/11/85 7/02/85 7/18/85 8/01/85 8/53/85 9/26/85 2/14/85 DATE

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Brown et 18/60/9

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 86 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00125

WEIGHT (GRAMS) CLINICAL OBSERVATIONS 378.0 393.0 393.0 401.0 408.0 401.0 401.0 401.0 396.0 396.0 397.0 OPERATOR 0000337 0078478 0000337 0010186 0000337 0000337 0034567 0000337 9:43:12 9:27:08 9:37:08 9:37:20 9:54:46 9:38:18 9:16:46 15:55:16 15:55:18 9:15:56 10:45:50 TIME 2/14/85 3/14/85 3/14/85 5/09/85 6/06/85 7/02/85 8/29/85 10/24/85 11/21/95 1/16/86 DATE

NORMAL

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00127 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

													EUTHANIZED
													EUTH
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
395.0	394.0	410.0	410.0	416.0	418.0	425.0	424.0	425.0	430.0	414.0	411.0	409.0	387.0
0000337	6078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
9:43:28	9:27:36	9:3 :14	8:37:36	9:55:10	8:20:56	9:30:30	9:39:22	9:17:00	10:05:40	15:53:40	9:42:10	10:45:26	8:14:32
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/30/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE is start Date: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00128 Species: D Sex: MALE Group: 100 UL/ANM

																EYE							
																TH E							
																N BC							
																PACIT							<u> </u>
																<u>5</u>							I ZEI
																CORNE							EUTHAN
							MEDIOM		MEDIOM		MEDIUM		MEDIUM		MEDIUM	MEDIUM,			MEDIUM		MEDIUM		MEDIUM,
							SIZE	SIZE			SIZE		SIZE		SIZE								
							LIVER	LIVER			LIVER		LIVER		LIVER								
	LIGHT	SLIGHT	SLIGHT	LIGHT	LIGHT	LIGHT	TO TO	LIGHT	L TO	10		LIGHT	ار ت	LIGHT	L 10	LIGHT	L 10						
	EYE S	EYE	EYE	EYE SLIGHT	EYE S	EYE S	'ENTRA	EYE S	'ENTRA	EYE S	'ENTRA	EYE S	ENTRA	EXE S	'ENTRA	ENTRA		EYE S	'ENTRA	EYE S	'ENTRA	EYE S	ENTRA
LIONS	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	MASS V	BOTH	AASS V	BOTH	AASS V	BOTH	AASS V	BOTH	ASS V	AASS V		BOTH	MASS V	BOTH	MASS V	BOTH	MASS \
OBSERVAT	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPACITY	OMINAL !	OPACITY	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPACITY	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPACITY	OMINAL P	OMINAL N		OPACITY	NTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPACITY	NTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	OPACITY	Intraabdominal mass ventral to liver size medium, euthanized
OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY BOTH EYE SLIGHT	CORNEAL OPACITY BOTH	CORNEAL OPACITY BOTH	CORNEAL OPACITY BOTH	CORNEAL OPACITY BOTH EYE SLIGHT	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABD	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABD	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABD	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, CORNEAL OPACITY BOTH	SLIGHT	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABD	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABO	CORNEAL OPACITY BOTH EYE SLIGHT,	INTRAABD
WEIGHT (GRAMS)	368.0	369.0	376.0	379.0	387.0	392.0		380.0		371.0		383.0		383.0		371.0		378.0		383.0		356.0	
OPERATOR	0000337	0078478	0000337	0000337	0010186	0000337		0001576		0000337		0000337		0034567		0084799		0000337		0000337		0034567	
TIME	9:43:44	9:28:02	9:30:56	8:37:58	9:55:36	8:21:22		9:30:50		9:40:14		9:17:26		10:06:06		15:54:02		9:42:34		1/16/86 10:45:48		8:16:06	
DATE	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85		8/01/85		8/29/85	•	9/26/85		10/24/85 10:06:06		11/21/85 15:54:02		12/19/85		1/16/86		1/30/86	

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CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00129

WEIGHT (GRAMS) CLINICAL OBSERVATIONS OPERATOR TIME DATE

NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
DECREASED PREENING MODERATE, ROUGH COAT MODERATE, STAIN BROWN NOSE MODERATE
** No observations recorded. 382.0 385.0 386.0 409.0 0000337 0000337 0000337 0000337 0000337 9:31:52 8:38:26 7:16:06 7:48:20 7:57:52 9:44:12 9:28:26 4/11/85 5/09/85 5/23/85 6/05/85 6/02/85 2/14/85 3/14/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-	ACRYLATE (IBC) IN MALE AND FEMALE RATS.		ANIMAL HISTORY
	ISOBUTYL 2-CYANOACRYLATE		
os.		1/28/85	
STUDY: 0083009	COMPOUND:	START DATE:	

Group: 10 UL/ANM

MALE

Sex:

Species: D

Animal ID: 84D00130

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			LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM EARS DISCOLORED ERYTHEMATOUS	I, LIVER SIZE LARGE, HT	TAND CIPE LABOR	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, CORNEAL OPACITY LEFT EYE	LIVER SIZE MEDIUM	LIVER SIZE MEDIUM	LIVER SIZE MEDIUM	LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM.URINARY CALCULI BLOODY URINE	TITVER SIZE MEDIUM	LIVER SIZE MEDIUM, EUTHANIZED
CLINICAL OBSERVATIONS	NORMAL STAIN BROWN NOSE SLIGHT	NORMAL NORMAL	NORMAL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO I	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, RICODY PREPITIAL DISCHARGE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAARDONINAL MASS UFNTRAL TO LIVER SIZE LARGE	INTRABBOMINAL MASS VENTRAL TO	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EXE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO I	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAARDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, EUTHANIZED
WEIGHT TOR (GRAMS)	390.0	394.0 392.0	398.0	404.0		404.0	404.0	396.0	410.0	402.0	395.0	400.0	395.0	366.0
OPERATOR	0000337	00078478	0000337	0084799	0000337	00000337	0001576	0000337	0000337	0034567	0084799	0000337	0084799	0034567
TIME	9:44:40	9:28:52 9:32:26	8:38:46	9:56:24	7:44:14	8:23:56	9:31:36	9:44:24	9:18:26	10:06:52	15:55:22	9:43:20	10:46:48	8:19:04
DATE	2/14/85	3/14/85 4/11/85	5/09/85 5/15/85	6/06/85	6/25/85	7/02/85	8/01/82	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/30/86

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00131

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
(GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 4443.0 455.0 452.0 452.0 445.0 4471.0 471.0 471.0 476.0 476.0 WEIGHT OPERATOR 0010186 0000337 0001576 0084799 0084799 0084799 0000337 0000337 0000337 0078478 0000337 10:22:28 9:30:12 10:00:12 9:11:24 10:00:16 8:24:54 9:32:22 9:46:06 9:19:16 10:07:40 15:6:24 9:46:22 TIME 4/11/85 5/09/85 6/06/85 7/02/85 8/20/85 9/26/85 10/24/85 11/21/85 11/21/85 1/16/86 3/14/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

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ANIMAL HISTORY

Animal ID: 84D00132 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

									SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT			LARGE		LARGE		LARGE		LARGE		INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED
	TE								, CONJUNCTIV			NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE		INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE		NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE		NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE		LIVER SIZE
	CORNEAL OPACITY LEFT EYE MODERATE	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT,	NTRAL TO	CORNEAL OPACITY LEFT EYE SLIGHT,	NTRAL TO	CORNEAL OPACITY LEFT EYE SLIGHT,	NTRAL TO	CORNEAL OPACITY LEFT EYE SLIGHT,	NTRAL TO	CORNEAL OPACITY LEFT EYE SLIGHT,	NTRAL TO
	ry LEFT E	IY LEFT E		LEFT	LEFT	LEFT	LEFT		LEFT	LEFT	IY LEFT E	L MASS VE	IY LEFT E	L MASS VE	IY LEFT E	L MASS VE	IY LEFT E	L MASS VE	IY LEFT E	L MASS VE
	AL OPACI	CORNEAL OPACITY LEFT	CORNEAL OPACITY LEFT	CORNEAL OPACITY LEFT	CORNEAL OPACITY	CORNEAL OPACITY	AL OPACIT	ABDOMINA	AL OPACIT	ABDOMINA	AL OPACIT	ABDOMINAL	AL OPACIT	ABDOMINA	AL OPACIT	ABDOMI NAI				
	CORNE	_	Ĭ	_	Ĭ	Ĭ	Ŭ	•	Ī	Ĭ	_	INTRA		INTRA	-	INTRA		INTRA		INTRA
		387.0	405.0	404.0	407.0	422.0	428.0	423.0	405.0	414.0	419.0		418.0		416.0		421.0		394.0	
	0084799	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567		0084799		0000337		0000337		0034567	
	8:50:48	10:22:42	9:30:32	10:00:46	9:12:02	10:01:10	8:59:00	9:32:56	9:47:38	9:20:44	10:08:30		11/21/85 15:57:20		9:47:28		1/16/86 10:49:00		8:24:00	
	2/05/85	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85		11/21/85		12/19/85		1/16/86		1/30/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00133

	CLINICAL OBSERVATIONS	
WEIGHT	OR (GRAMS) C	
	OPERATOR	
	TIME	
	DATE	

													/ EUTHANIZED
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
423.0	430.0	440.0	428.0	437.0	432.0	434.0	425.0	427.0	434.0	420.0	425.0	417.0	391.0
		0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
10:23:16	9:31:10	10:01:20	9:12:32	10:01:34	8:59:26	9:33:14	9:48:34	9:21:20	10:10:16	15:58:24	9:48:16	10:49:48	8:26:12
		4/11/85	5/09/85	6/06/85	7/02/85	8/01/82	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	1/30/86

STUDY: 0083009		CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-
COMPOUND:	ISOBUTYL 2-CYANOACRYLATE	ACRYLATE (IBC) IN MALE AND FEMALE RATS.
START DATE:	1/28/85	

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1/28/85 ANIMAL HISTORY

Group: 100 UL/ANM

MALE

Sex:

Species: D

Animal ID: 84D00134

															EDIUM, EUTHANIZED
											MEDIUM	MEDIUM	MEDIUM	MEDIUM	MEDIOM,
											SIZE	SIZE	SIZE	SIZE	SIZE
											LIVER	LIVER	LIVER	LIVER	LIVER
											5	70	인 고	٦ 5	ر ت
"	,										VENTRAL TO	VENTRAL	VENTRAL	VENTRAL	VENTRAL
TIONS											MASS	MASS	MASS	MASS	MASS
OBSERVA											OMINAL	NTRABBOOMINAL	NTRABDOMINAL	NTRABBOOMINAL	
CLINICAL OBSERVATIONS	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	INTRAABDOMINAL	INTRABD	INTRAABC	INTRABE	INTRABBOOMINAL
WEIGHT (GRAMS)	414.0	417.0	415.0	441.0	422.0	424.0	429.0	428.0	433.0	436.0		419.0	423.0	413.0	384.0
OPERATOR	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0000337	0084799	0000337	0000337	0034567
TIME	10:23:32	9:31:52	10:02:00	9:13:16	10:02:02	9:00:22	9:33:32	9:49:24	9:21:34	10:10:34	10:08:00	15:58:40	9:48:46	10:50:08	8:27:32
DATE	2/14/85	3/14/85	4/11/85	5/09/85	9/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/07/85	11/21/85	12/19/85	1/16/86	1/30/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN B START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00136 Species: D Sex: MALE Group: 10 UL/ANM

WEIGHT

LARGE, CONJUNCTIVITIS LEFT EYE LARGE, CONJUNCTIVITIS LEFT EYE MEDIUM MEDIUM LARGE LARGE LARGE LARGE LARGE LARGE LARGE LARGE SIZE SIZE SIZE SIZE SIZE SIZE SIZE L MASS VENTRAL TO LIVER S VENTRAL TO LIVER VENTRAL TO LIVER LIVER LIVER LIVER LIVER LIVER LIVER INTRAABDOMINAL MASS VENTRAL TO LI MODERATE, EUTHANIZED CLINICAL OBSERVATIONS MASS MASS INTRAABDOMINAL INTRAABDOMINAL INTRABBOOMINAL INTRABBOOMINAL INTRABBOMINAL INTRABBOOMINAL INTRABBOOMINAL MODERATE NORMAL NORMAL NORMAL (GRAMS) 407.0 406.0 406.0 392.0 374.0 399.0 407.0 400.0 408.0 408.0 403.0 OPERATOR 0000337 00084799 0000337 0010186 0001576 0078478 0000337 0000337 0000337 0000337 0000337 0000337 0034567 0000337 9:13:36 7:50:30 7:43:22 10:02:22 10:23:48 9:32:40 9:00:54 9:34:32 9:50:08 9:21:58 10:10:54 15:59:50 9:49:44 10:51:08 7:36:12 10:02:58 7:49:52 TIME 5/15/85 5/23/85 9/26/85 1/16/86 2/03/86 4/11/85 8/01/85 8/29/85 11/21/85 3/14/85 5/09/85 6/06/85 6/25/85 7/02/85 12/19/85 DATE

HISTORIES INDIVIDUAL ANIMAL (cont.): Appendix F

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00137

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, SUBCUTANEOUS MASS RIGHT SIDE THORAX SIZE LARGE, EUTHANIZED MEDIUM MEDIUM MEDIUM SIZE LARGE SIZE LARGE LARGE LARGE, LARGE SIZE SIZE SIZE SIZE NORMAL
NORMAL
INTRAABDOMINAL MASS VENTRAL TO LIVER SII
INTRAABDOMINAL MASS THORAX RIGHT SIDE WEIGHT (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL 417.0 424.0 4440.0 434.0 431.0 430.0 422.0 405.0 416.0 416.0 414.0 392.0 OPERATOR 0010186 0000337 0078478 0000337 0001576 0000337 0000337 0084799 0034567 0034567 0000337 10:24:08 9:33:02 9:14:08 9:53:32 16:00:42 9:50:22 10:52:14 10:11:36 10:03:26 9:01:34 9:35:02 TIME 2/14/85 3/14/85 5/09/85 6/06/85 8/29/85 9/26/85 11/21/85 12/19/85 8/01/85 4/11/85 7/02/85 10/24/85 1/16/86 2/03/86 DATE

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STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRY
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (1BC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00138 Species: D Sex: MALE Group: CONTROLS

WEIGHT DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85 10:24:42 0000337 385.0 NORMAL
3/14/85 9:33:28 0078478 386.0 NORMAL
4/11/85 10:04:10 0000337 385.0 NORMAL
5/09/85 9:14:46 0000337 397.0 NORMAL
6/06/85 10:03:38 00010186 389.0 NORMAL
8/01/85 9:03:38 00010186 389.0 NORMAL
8/29/85 9:56:36 0000337 411.0 NORMAL
10/24/85 10:12:34 0034567 423.0 NORMAL
11/21/85 16:012:34 0034567 435.0 NORMAL
11/21/85 16:01:06 0000337 436.0 NORMAL
11/19/85 9:51:06 0000337 436.0 NORMAL
1/16/86 10:54:06 0000337 440.0 NORMAL
2/03/86 7:43:10 0034567 409.0 NORMAL / EUTHANIZED

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00139

VENTRAL TO LIVER SIZE MEDIUM MASS VENTRAI SIZE LARGE SIZE LARGE SIZE LARGE SIZE LARGE SIZE LARGE SIZE LARGE SIZE LARGE, INTRAABDOMINAL MASS VENTRAL TO LIVER SI SIXTY GRAM WEIGHT LOSS ELEVEN DAYS SLIGHT, INTRAABDOMINAL SCAB RIGHT EAR SLIGHT SCAB RIGHT EAR SLIGHT, WEIGHT (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL 401.0 405.0 401.0 417.0 413.0 415.0 418.0 407.0 OPERATOR 0000337 0010186 0000337 0000337 0078478 0000337 0000337 0034567 0000337 0001576 0000337 0000337 9:15:22 7:55:10 10:04:00 9:35:58 9:57:06 9:24:12 10:12:58 8:03:12 9:33:48 10:25:06 9:04:06 TIME 4/11/85 5/09/85 5/15/85 6/06/85 9/26/85 3/14/85 7/02/85 8/01/85 8/29/85 DATE

DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYL
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00140 Species: D Sex: MALE Group: 10 UL/ANM

#EIGHT

WEIGHT

2/14/85 10:25:24 0000337 409.0 NORMAL

3/14/85 9:34:10 0078478 414.0 NORMAL

4/11/85 10:05:30 0000337 409.0 NORMAL

5/09/85 9:17:14 0000337 421.0 NORMAL

6/06/85 10:04:50 0010186 430.0 NORMAL

7/02/85 9:04:52 0000337 444.0 NORMAL

8/29/85 9:36:32 0001576 445.0 NORMAL

8/29/85 9:58:06 0000337 442.0 NORMAL

10/24/85 10:13:56 0034567 442.0 NORMAL

11/21/85 16:01:58 0034567 442.0 NORMAL

11/16/86 10:54:24 0000337 436.0 NORMAL

1/16/86 10:54:24 0000337 436.0 NORMAL

2/03/86 7:44:48 0034567 382.0 NORMAL / EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-

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-CYANOACRYLATE ACRYLATE (IBC) IN MALE AND FEMALE RATS.	ANIMAL HISTORY	es: D Sex: MALE Group: 10 UL/ANM	WEIGHT (GRAMS) CLINICAL OBSERVATIONS	393.0 PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED	SHT EYE	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED 405.0 PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE	425.0 PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED	PROLAPSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED, SCAB RIGHT EAR	425.0 SCAB RIGHT EAR MODERATE, PROLAPSED LENS RIGHT EYE MARKED,	OPAQUE LENS RIGHT EYE MARKED	426.0 SCAB RIGHT EAR SLIGHT, PROLAPSED LENS RIGHT EYE MARKED,	OPAQUE LENS RIGHT EYE MARKED		423.0 PROLAPSED LENS RIGHT EYE MARKED,OPAQUE LENS RIGHT EYE MARKED, MICROOPTHALMIA RIGHT EYE	428.0 OPAQUE LENS RIGHT EYE MARKED, PROLAPSED LENS RIGHT EYE MARKED	OPAQUE LENS RIGHT EYE MARKED, MICROOPTHALMIA RIGHT EYE	OPAQUE LENS RIGHT EYE MARKED, MICROOPTHALMIA RIGHT EYE SLIGHT,	INITAMBUCMINAL MASS VENITAL IO LIVER SIZE LARGE 418.0 INTRAMBDOMINAL MASS VENITAL TO LIVER SIZE MEDIUM, OPAQUE LENS RIGHT EXE MARKED.	MICROOPTHALMIA RIGHT EXE MARKED	416.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, OPAQUE LENS BOTH EYES MARKED,	405.0 INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE LARGE,	OPAQUE LENS BOTH EYES MARKED WITH MICROOPTHALMIA RIGHT EYE	CESTISTED DELOCATED DESCRIPTION OF A CESTIST
6	}	Species:	OPERATOR	0084799	0000337	0084799	0000337	0000337	0010186	0000337	0000337		0001576		0000337	0000337	0000337	0034567	0000337	0084799		0000337	0000337		0034567
ISOBUTYL 1/28/85		84000141	TIME			9:34:28			7	7:54:36	9:05:22		9:36:54		9:33:52		9:54:16		10:14:18	16:02:16		9:51:40	10:54:40		7.46.58
COMPOUND:		Animal ID: 84D00141	DATE		3/05/85	3/14/85				6/25/85	7/02/85		8/01/85			8/29/85	9/26/85			11/21/85		12/19/85	1/16/86 1		20700/0

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00142 Species: D Sex: MALE Group: CONTROLS

WEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85 10:27:46 0000337 390.0 NORMAL 3/14/85 9:35:30 0078478 394.0 NORMAL 4/11/85 10:07:26 0000337 399.0 NORMAL 5/09/85 9:19:22 0000337 407.0 NORMAL 6/06/85 10:05:58 0010186 415.0 NORMAL 7/02/85 9:06:14 0000337 410.0 NORMAL 8/29/85 10:00:18 0000337 410.0 NORMAL 9/26/85 9:55:26 0000337 419.0 NORMAL 10/24/85 10:15:06 0034567 413.0 NORMAL 11/21/85 16:05:08 0000337 400.0 NORMAL 1/16/86 10:57:16 0000337 379.0 NORMAL 1/16/86 10:57:12 0034567 353.0 NORMAL / EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 102 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00143 Species: D Sex: MALE Group: CONTROLS

#EIGHT GRAMS CLINICAL OBSERVATIONS

2/14/85 10:28:28 0000337 380.0 SCAB RIGHT EAR SLIGHT

4/11/85 10:08:52 0000337 385.0 SCAB RIGHT EAR SLIGHT

4/11/85 10:08:52 0000337 405.0 NORMAL

5/09/85 9:19:46 0000337 405.0 NORMAL

8/01/85 9:06:40 0000337 403.0 NORMAL

8/01/85 9:06:40 0000337 403.0 NORMAL

8/29/85 10:00:40 0000337 421.0 NORMAL

10/24/85 10:15:24 0000337 421.0 NORMAL

11/21/85 16:05:40 0000337 421.0 NORMAL

11/21/85 16:05:40 0000337 421.0 NORMAL

11/16/86 10:57:40 0000337 412.0 NORMAL

1/16/86 10:57:40 0000337 412.0 NORMAL

1/16/86 10:57:28 0000337 412.0 NORMAL

1/16/86 10:57:28 0000337 375.0 NORMAL

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE AS START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00144 Species: D Sex: MALE Group: 10 UL/ANM

					EYE SLIGHT												
		-			EXE												
S	İ	LIGH			THE											_	
TIO		S			RIC											ZEC	
ERVA		NOS			CITY											EUTHANIZED	
OBS		OMN			OPA											EU	
CAL	1	9.	7	7	EAL	7	7	7	7	7	7	7	7	7	1	\ !:	
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	NORMAL	STAIN BROWN NOSE SLIGHT	NORMAL	NORMAL	CORNEAL OPACITY RIGHT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /	
HT (S)	0.		٥.	0		0	0	0	0	0	0	0	0	0	0	0	
WEIGHT (GRAMS	414.0		423.0	416.0		418.0	425.0	431.0	435.0	437.0	435.0	434.0	419.0	422.0	420.0	388.0	
OPERATOR	37	37	78	37	31	37	96	37	92	37	37	29	66	37	37	2	
PERA	0000337	0000337	0078478	0000337	0067831	0000337	0010186	0000337	0001576	0000337	003	0034567	3084799	0000337	2000337	0034567	
ōΙ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ĕ	ŏ	ö	ŏ	8	ວ	ö	ŏ	8	8	
	9:34	3:44	7:58	2:04	:40	1:16	5:34	90:	:02	: 08	:08	: 44	00:	90:	:58	:10	
TIME	10:29:34	8:13:4	9:37:58	10:12:04	7:50:40	9:20:16	10:06:34	9:07:06	9:41:02	10:01:08	9:56:08	10:15:44	16:06:00	9:55:06	10:57:58	7:54:10	
1				_						•			•	_	•		
DATE	2/14/85	3/05/85	3/14/85	/11/85	4/16/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	4/85	1/85	9/85	1/16/86	2/03/86	
٧a	2/1	3/0	3/1	4/1	1/1	5/0	9	1/0	8/0	8/2	9/5	10/24/85	11/21/85	12/19/85	1/1	2/0	

CARCINOGENICITY BIOASSAY OF ISOBUTYI, 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

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ANIMAL HISTORY Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00145

														NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED
CLINICAL OBSERVATIONS														OMINAL MASS V
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	INTRAABD
WEIGHT (GRAMS)	382.0	383.0	386.0	390.0	387.0	398.0	401.0	396.0	400.0	403.0	393.0	388.0	376.0	354.0
OPERATOR	00000337	0078478	0000337	0000337	0010186	00000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
TIME	10:29:50	9:38:24	10:12:40	9:20:52	10:06:54	9:07:32	9:41:30	10:01:38	9:56:30	10:16:04	16:06:16	9:55:24	10:58:12	7:56:16
DATE	2/14/85	3/14/85	4/11/85	5/09/85	9/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/03/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00146 Species: D Sex: MALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

SCAB ABDOMEN RIGHT SIDE SLIGHT SCAB ABDOMEN RIGHT SIDE SLIGHT SCAB ABDOMEN RIGHT SIDE SLIGHT SCAB ABDOMEN RIGHT SIDE SLIGHT SCAB ABDOMEN RIGHT SIDE SLIGHT * No observations recorded. SEBACEOUS CYST ABDOMINAL NORMAL NORMAL NORMAL NORMAL NORMAL 407.0 409.0 416.0 424.0 434.0 429.0 440.0 441.0 439.0 0000337 0078478 0000337 0000337 0000337 0001576 0000337 0000337 0034567 0000337 0010186 10:30:10 9:38:42 10:13:14 9:22:40 7:53:40 10:07:26 9:08:02 9:41:46 10:02:02 9:56:54 4/11/85 5/09/85 5/23/85 7/02/85 8/01/85 8/29/85 9/26/85 10/24/85 6/06/85 2/14/85 3/14/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00147 Species: D Sex: MALE Group: 10 UL/ANM

NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
** No observations recorded. WEIGHT (GRAMS) CLINICAL OBSERVATIONS 367.0 367.0 369.0 378.0 398.0 412.0 OPERATOR 0000337 0078478 0000337 0010186 0000337 0001576 10:30:30 9:38:58 10:13:46 9:25:24 10:07:44 9:09:54 TIME 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 2/14/85 3/14/85 DATE

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DATE: 6/09/87
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STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00148 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

PREPUTIAL FISTULA SMALL AND HEALING PREPUTIAL FISTULA SMALL PREPUTIAL FISTULA SLIGHT PREPUTIAL FISTULA SLIGHT PREPUTIAL FISTULA SMALL PREPUTIAL FISTULA SLIGHT
PREPUTIAL FISTULA SLIGHT
PREPUTIAL FISTULA SMALL
PREPUTIAL FISTULA SMALL
PREPUTIAL FISTULA SIZE SMALL
PREPUTIAL FISTULA, EUTHANIZED NORMAL NORMAL PREPUTIAL FISTULA PREPUTIAL FISTULA PREPUTIAL FISTULA 417.0 430.0 4420.0 4420.0 428.0 428.0 428.0 411.0 411.0 411.0 398.0 389.0 0000337 0010186 0000337 0001576 0034567 0084799 0000337 0000337 0000337 0078478 0000337 0000337 9:25:38 10:07:58 9:10:22 9:45:38 9:57:56 10:17:26 16:06:32 9:55:44 10:58:32 7:59:56 10:30:46 10:03:20 9:39:14 10:14:54 8/29/85 9/26/85 10/24/85 11/21/85 12/19/85 1/16/86 2/03/86 5/09/85 6/06/85 7/02/85 8/01/85 2/14/85 4/11/85 3/14/85

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 108 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

10 UL/ANM
Group:
MALE
Sex:
Species: D
): 84D00149
Animal ID:

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, DEHYDRATED SLIGHT, SILGHT, SOUGH COAT MARKED, DORPHYRIN STAINS COAT MARKED, DORPHYRIN STAINS COAT MARKED.	* No observations recorded.
WEIGHT (GRAMS)	380.0 386.0 393.0 400.0 411.0 393.0	
OPERATOR	0000337 0000337 0000337 0000337 0010186 0000337	0034567
TIME	10:31:02 9:39:34 10:15:24 9:27:36 7:50:24 9:16:08 9:11:16	10:40:02
DATE	2/14/85 3/14/85 4/11/85 5/09/85 5/23/85 6/05/85 7/02/85	8/01/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRY1
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00151 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

															_	_
			SLIGHT) LIVER											MARKED	MARKED
			NOSE :		_	_	_	_							ALLOR	ALLOR
			BROWN		MEDIUM	MEDIUM	MED IUP	MED IUN	EDIUM	ARGE	LARGE		LARGE	ARGE	ARGE, PALLOR	LARGE, PALLOR
			STAIN		SIZE	SIZE	SIZE	IVER, SIZE MEDIUM	SIZE M	SIZE L			SIZE L		SIZE	SIZE L
	LIVER	LIVER	LIVER,	LIVER	LIVER,	LIVER,	LIVER,	LIVER,	LIVER	LIVER	LIVER SIZE	ъ,	LIVER	LIVER	IVER	LIVER
	ĭ	ĭ	ဥ	ĭ	D D	ĭ	g.	5	5	ဥ	5	RAT	5	5	5	ဥ
	VENTRAL	VENTRAL	VENTRAL TO I	VENTRAL	VENTRAL TO	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL TO	EYE MODERATE,	VENTRAL	VENTRAL TO LIVER SIZE	VENTRAL TO I	VENTRAL TO
			MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	LEFT	MASS	MASS	MASS	MASS
NORMAL	INTERABDOMINAL MASS	INTERABDOMINAL MASS	INTRABBOOMINAL	INTRABBOOMINAL	INTRABBDOMINAL	INTRABBOOMINAL	INTRABBDOMINAL	INTRAABDOMINAL	INTRABBOOMINAL	INTRAABDOMINAL	INTRABBDOMINAL	CONJUNCTIVITIS	INTRABBOOMINAL	INTRABBOOMINAL	INTRABBDOMINAL	INTRABBOOMINAL
	397.0	405.0			405.0	399.0	417.0	417.0	414.0		416.0	417.0		422.0	424.0	
0000337	0000337	0000337	0084799	0084799	0078478	0000337	0000337	0000337	0084799	0000337	0010186	0000337		0001576	0000337	0000337
7:54:08	10:31:30	8:09:38	8:16:20	8:02:40	9:40:00	9:23:22	10:16:08	8:43:20	9:28:06	7:54:58	10:11:04	9:12:08		9:52:16	10:04:52	11:33:04
2/06/85	2/14/85	2/28/85	3/05/85	3/13/85	3/14/85	4/03/85	4/11/85	4/25/85	5/09/85	5/23/85	6/06/85	7/02/85		8/01/85	8/29/85	8/30/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 110
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00152

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

			UTHANIZED
	MEDIUM LARGE LARGE LARGE		LARGE LARGE LARGE LARGE, E
	SIZE SIZE SIZE SIZE	SIZE SIZE SIZE SIZE	SIZE SIZE SIZE SIZE
	LIVER LIVER LIVER LIVER	LIVER LIVER LIVER LIVER	LIVER LIVER SMALI LIVER LIVER
	ខ្ពុខ្ពុ	2222	5555
	VENTRAL VENTRAL VENTRAL	MASS VENTRAL TO I MASS VENTRAL TO I MASS VENTRAL TO I MASS VENTRAL TO I	VENTRAL VENTRAL H LEFT S VENTRAL
	MASS MASS MASS MASS	MASS MASS MASS MASS	MASS MASS MOUT MASS MASS
NORMAL NORMAL NORMAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE I INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE I INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE I INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO	INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE PAPILLOMA ANGLE MOUTH LEFT SIDE SMALL, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED
425.0 432.0 432.0	443.0	446.0 447.0 450.0 458.0	441.0 434.0 427.0 394.0
0000337 0078478 0000337 0000337	0000337 0000337 0010186 0000337	0001576 0084799 00000337 0034567	0084799 0000337 0000337 0034567
10:33:08 9:41:28 10:17:06 9:29:26	8:02:44 9:19:20 10:11:52 9:13:25	9:52:50 10:06:26 9:58:44 10:18:00	16:07:58 9:56:28 10:59:14 8:01:58
2/14/85 3/14/85 4/11/85 5/09/85	5/15/85 6/05/85 6/06/85 7/02/85	8/01/85 8/29/85 9/26/85 0/24/85	1/21/85 2/19/85 1/16/86 2/03/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FFWALE RATS.

ANIMAL HISTORY

Animal ID: 84D00153 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

OPAQUE LENS LEFT EYE MARKED, SUBCUTANEOUS MASS LEFT FOREARM SIZE SMALL OPAQUE LENS LEFT EYE MARKED, SUBCUTANEOUS CYST LEFT FOREARM SMALL OPAQUE LENS LEFT EYE MARKED, SUBCUTANEOUS MASS LEFT HUMEROUS SIZE SMALL OPAQUE LENS LEFT EYE MARKED, SUBCUTANEOUS MASS LEFT FORE ARM SMALL OPAQUE LENS LEFT EYE SLIGHT, SUBCUTANEOUS MASS LEFT HUMERUS SIZE MEDIUM SUBCUTANEOUS MASS LEFT HUMERUS SIZE SMALL, OPAQUE LENS LEFT EYE MARKED SUBCUTANEOUS MASS LEFT FOREARM SIZE SMALL, OPAQUE LENS LEFT EYE MARKED SUBCUTANEOUS MASS LEFT HUMERUS ERUPTED THROUGH SKIN SIZE MEDIUM SUBCUTANEOUS MASS LEFT FOREARM, OPAQUE LENS LEFT EYE, EUTHANIZED CORNEAL OPACITY LEFT EYE SLIGHT, SCAB RIGHT EAR SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT SUBCUTANEOUS MASS LEFT HUMOROUS SMALL SUBCUTANEOUS MASS LEFT HUMERUS SIZE MEDIUM SUPPURATING MASS LEFT HUMERUS SIZE MEDIUM SUBCUTANEOUS MASS LEFT HUMEROUS MEDIUM SUBCUTANEOUS MASS LEFT HUMERUS MEDIUM CORNEAL OPACITY LEFT EYE SLIGHT OPAQUE LENS LEFT EYE MARKED, 424.0 419.0 429.0 431.0 422.0 420.0 414.0 379.0 440.0 129.0 435.0 419.0 424.0 0010186 0001576 0084799 0000337 0000337 0078478 0084799 0000337 0000337 0000337 0000337 0084799 0000037 0034567 0034567 7:59:24 10:13:04 9:14:46 9:57:16 9:42:00 10:18:08 9:29:48 8:05:58 6:53:18 16:09:22 9:53:24 10:07:52 10:00:04 10:19:20 11/21/85 3/14/85 4/11/85 5/09/85 5/15/85 5/23/85 6/06/85 7/02/85 8/01/85 8/15/85 8/29/85 9/26/85 10/24/85 1/16/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 112 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00154 Species: D Sex: MALE Group: 10 UL/ANM WEIGHT

WEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

															IZED	
															SUTHAN	
					MEDIOM	MEDIUM	LARGE	LARGE	LARGE	LARGE	LARGE	LARGE	LARGE	LARGE	LARGE, EUTHANIZED	
					SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	
					LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	
					2	2	10	10	2	5	5	5	ဥ	5	5	
					VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	
TIONS					MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	
OBSERVA					NTRABBOOMINAL	OMINAL	OMINAL	NTRABBDOMINAL	OMINAL	NTRABDOMINAL	OMINAL	OMINAL	OMINAL	OMINAL	OMINAL	
CLINICAL OBSERVATIONS	NORMAL	NORMAL	NORMAL	NORMAL	INTRABE	INTRAABDOMINAL	INTRAABDOMINAL	INTRAABL	INTRAABDOMINAL	INTRABE	INTRAABDOMINAL	INTRABBOOMINAL	INTRABBDOMINAL	INTRAABDOMINAL	INTRABBDOMINAL	
(GRAMS)	411.0	413.0	418.0	430.0		429.0	435.0	432.0	433.0	445.0	443.0	427.0	411.0	402.0	383.0	
OPERATOR (GRAMS)	0000337	0078478	0000337	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567	
TIME	10:35:36	9:42:56	10:19:02	9:33:30	8:01:48	10:14:42	9:15:44	9:54:56	10:10:52	10:02:58	10:21:10	16:10:30	9:58:36	11:02:14	8:07:36	
DATE	2/14/85	3/14/85	4/11/85	5/09/85	5/23/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/03/86	

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS

MALE

Sex:

Species: D

Animal ID: 84D00155

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

													EUTHANIZED
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
421.0	407.0	412.0	425.0	425.0	427.0	423.0	423.0	432.0	437.0	424.0	426.0	413.0	387.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
10:35:52	9:43:16	10:20:00	9:33:44	10:15:38	9:16:34	9:55:32	10:12:18	10:04:52	10:22:28	16:11:50	9:59:28	11:02:58	8:09:36
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/03/86

INDIVIDUAL ANIMAL HISTORIES r (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 114 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANAMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00156

WEIGHT (GRAMS) CLINICAL OBSERVATIONS OPERATOR TIME DATE

NORMAL NORMAL NORMAL INTRABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE * No observations recorded. 430.0 442.0 441.0 357.0 0000337 0000337 0000337 0000337 10:36:08 9:43:34 10:21:18 9:34:12 11:43:18 2/14/85 3/14/85 4/11/85 5/09/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00157

WEIGHT
OPER (GRAMS) CLINICAL OBSERVATIONS TIME

NORMAL DEATH 375.0 0000337 0078478 10:36:24 8:01:42 2/14/85 2/26/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 116 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: CONTROLS MALE Animal ID: 84D00158 Species: D Sex:

Ī	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL	CLINICAL OBSERVATIONS
m	10:36:44	0000337	382.0	NORMAL	
=	12:10:32	0078478	386.0	NORMAL	
	10:22:10	0000337	393.0	NORMAL	
	9:39:20	0000337	401.0	NORMAL	
	10:16:04	0010186	387.0	NORMAL	
	9:17:02	0000337	419.0	NORMAL	
	9:55:48	0001576	417.0	NORMAL	
	10:12:28	0000337	413.0	NORMAL	
	10:05:18	0000337	418.0	NORMAL	
	10:22:50	0034567	423.0	NORMAL	
	16:12:14	0084799	413.0	NORMAL	
	9:59:42	0000337	406.0	NORMAL	
	11:03:14	0000337	399.0	NORMAL	
	90:1	0034567	380.0	NORMAL /	EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84000160 Species: D Sex: MALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL STAIN BROWN NOSE SLIGHT NORMAL / EUTHANIZED NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 451.0 453.0 462.0 475.0 478.0 470.0 470.0 470.0 470.0 470.0 453.0 0000337 0000337 0010186 0000337 0067831 0078478 0001576 0000337 0000337 0084799 0000337 0000337 0034567 0000337 0000337 0034567 8:07:34 12:11:20 10:22:46 9:39:38 10:16:20 9:17:46 10:12:46 10:23:06 16:12:42 9:56:08 8:20:56 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 9/26/85 3/13/85 3/14/85 11/21/85 12/19/85 1/16/86 2/03/86 2/14/85 3/05/85

STUDY: U083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 118
DATE: 6/09/87
TIME: 14:40:13
EDSO17 V4M11

Animal ID: 84D00161 Species: D Sex: MALE Group: 100 UL/ANM

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY LEFT EYE MODERATE, INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY LEFT EYE MODERATE, EUTHANIZED CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE
CORNEAL OPACITY LEFT EYE MODERATE (GRAMS) CLINICAL OBSERVATIONS 357.0 358.0 369.0 375.0 370.0 370.0 369.0 372.0 372.0 WEIGHT 327.0 OPERATOR 0000337 0078478 0010186 0000337 0001576 0000337 0000337 0034567 0000337 0084799 0034567 0000337 9:17:56 9:56:32 10:13:30 10:05:56 10:23:22 8:15:56 10:37:38 12:12:14 10:23:38 9:39:54 10:16:52 16:13:08 10:00:14 11:03:54 TIME 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 3/14/85 1/16/86 2/03/86 10/24/85 11/21/85 12/19/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00162

STAIN BROWN NOSE MODERATE OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL / EUTHANIZED NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 380.0 388.0 394.0 394.0 396.0 396.0 398.0 383.0 382.0 375.0 **WEIGHT** 00018478 0000337 0000137 00010186 0000137 0000337 0004567 00000337 0000337 0067831 12:12:34 10:24:26 9:40:12 10:17:24 9:18:20 9:56:52 10:14:02 10:06:32 10:23:38 16:13:48 10:01:34 11:04:46 8:18:08 10:38:20 8:09:26 8:22:24 TIME 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 10/24/85 2/14/85 3/05/85 4/11/85 1/16/86 2/03/86 3/14/85 3/13/85

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 120 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00163 Species: D Sex: MALE Group: CONTROLS

#EIGHT

2/14/85 10:38:34 0000337 448.0 NORMAL
3/14/85 12:12:54 0078478 444.0 NORMAL
4/11/85 10:25:16 0000337 449.0 NORMAL
5/09/85 9:40:30 0000337 449.0 NORMAL
7/02/85 9:18:48 0000337 472.0 NORMAL
8/29/85 10:17:42 0000337 472.0 NORMAL
8/29/85 10:14:22 0000337 472.0 NORMAL
9/26/85 10:06:48 0000337 471.0 NORMAL
9/26/85 10:06:48 0000337 471.0 NORMAL
10/24/85 10:23:54 0034567 479.0 NORMAL

NORMAL	NORMAL	NORMAL	INTRAMBDOMINAL MASS SPLENIC SIZE MEDIUM, PALLOR MODERATE, EUTHANIZED	
475.0 NORMAL	475.0	444.0	391.0	
0084799	0000337	0000337	0034567	
16:14:06	10:01:48	1/16/86 11:05:06 0000337	8:20:00	
11/21/85	12/19/85	1/16/86	2/03/86	

INDIVIDUAL ANIMAL HISTORIES (cont.): ĵ. Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Species: D Animal ID: 84D00164

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

IRRITABLE SLIGHT
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL 398.0 404.0 423.0 423.0 429.0 430.0 435.0 0000337 0078478 0000337 0000337 0001576 0000337 0000337 0000337 10:39:00 7:56:34 10:15:38 10:26:08 9:40:50 10:18:08 9:57:30 10:14:42 10:24:14 2/14/85 2/25/85 3/14/85 3/14/85 5/09/85 6/06/85 7/02/85 8/21/85 9/26/85 11/07/85

NORMAL CONJUNCTIVITIS BOTH EYE MODERATE, STAIN BROWN NOSE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE, STAIN BROWN NOSE MODERATE, STAIN BROWN PERIANAL SLIGHT, WEIGHT LOSS MARKED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 122 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00166 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TORMAL	CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT		CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT	SUBCUTANEOUS MASS LEFT SIDE SIZE SMALL, CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, SUBCUTANEOUS MASS LEFT SIDE MEDIUM	CORNEAL OPACITY LEFT EXE SLIGHT, SUBCUTANECUS MASS RIGHT SIDE SIZE LARGE	CORNEAL OPACITY LEFT EYE SLIGHT, SUBCUTANEOUS MASS RIGHT SIDE SIZE LARGE
NOR	COR	COR	COR	COR	COR	SUB	COR	COR	COR
354.0	354.0	355.0	360.0	371.0	374.0	381.0	382.0	392.0	
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0000337
10:39:32	12:16:02	10:26:58	9:41:18	10:18:26	9:19:40	9:57:46	10:14:58	10:08:32	11:13:30
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/11/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Species: D Sex: Animal ID: 84D00168

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

													/ EUTHANIZED
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
393.0	399.0	402.0	404.0	409.0	411.0	416.0	416.0	418.0	431.0	415.0	411.0	410.0	382.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
10:39:56	12:17:38	10:28:08	9:41:46	10:18:44	9:50:06	10:00:06	10:16:02	10:09:42	10:24:32	16:14:28	10:02:10	11:05:32	8:24:20
2/14/85	3/14/85	4/11/85	2/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/03/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Þ Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (1BC) IN MALE AND FEMALE RATS.

PAGE 124 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00169

EYE MODERATE EYE MODERATE EYE MODERATE NORMAL
CORNEAL OPACITY RIGHT ENCORNEAL OPACITY RIGHT ENCORNEAL OPACITY RIGHT ENCORNEAL OPACITY RIGHT EXE MODAQUE LENS RIGHT EYE STAIN BROWN NOSE SLIGHT WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 387.0 399.0 397.0 404.0 412.0 416.0 429.0 423.0 0000337 0000337 0010186 0000337 0001576 0078478 0000337 0000337 0000337 0000337 0072808 10:40:12 12:18:00 10:28:50 7:41:46 6:52:16 9:42:04 10:19:10 9:20:32 10:00:38 10:10:06:38 10:10:06:38 10:10:05:38 10:10:05:38 TIME 4/11/85 4/17/85 5/02/85 5/09/85 6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 10/22/85 3/14/85 DATE

MARKED, EUTHANIZED

MODERATE

441.0 425.0 425.0 414.0 390.0

0000337

0000337 0034567

10/24/85 11/21/85 12/19/85 1/16/86 2/05/86

0034567 0084799

MARKED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00170

CLINICAL OBSERVATIONS WEIGHT (GRAMS) OPERATOR TIME DATE

IRRITABLE SLIGHT, SCALING BACK MODERATE SCALING BACK MARKED SCALING BACK MARKED SCALING BACK MARKED NORMAL NORMAL 421.0 419.0 409.0 0000337 0078478 0000337 0000337 0000337 10:40:34 12:18:20 7:59:10 8:58:24 10:29:28 9:36:28 3/14/85 4/05/85 4/09/85 4/11/85 4/23/85

STUDY: 0083009
COMPOUND: ISCBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 126 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00171 Species: D Sex: MALE Group: 10 UL/ANM

MEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

													THANIZED
				LARGE	LARGE	LARGE	MEDIOM	LARGE	LARGE	LARGE			LARGE, EL
				SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	SIZE	ы		SIZE
				LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	LIVER	ZE LARG		LIVER
				13 13	5	2	2	2	5	잂	SI		5
				VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	VENTRAL	SPLENIC	RGE	VENTRAL
				MASS	MASS	MASS	MASS	MASS	MASS	MASS	MASS	ZE LA	MASS
MAL	MAL	MAL	NORMAL	RAABDOMINAL	RAABDOMINAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	RAABDOMINAL	RAABDOMINAL	RAABDOMINAL	NTRAABDOMINAL MASS VENTRAL TO LIVER	INTRAABDOMINAL MASS SPLENIC SIZE LARGE	SPLENIC MASS SIZE LARGE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED
SOR	NOR	KOK	20R	INI	INI	INI	INI	INT	INI	INI	INT	SPL	INT
404.0	412.0	410.0	419.0	423.0	421.0	425.0	413.0	406.0	407.0	393.0	393.0	387.0	358.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
			9:42:58									12:31:16	7:42:18
						8/01/85							

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLA
START DAIE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00172 Species: D Sex: MALE Group: 100 UL/ANM

											SIZE		SIZE		SIZE	SIZE	SIZE		
					MODERATE	MODERATE	MODERATE	SLIGHT	LEFT EYE SLIGHT	SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	INTRABDOMINAL MASS VENTRAL TO LIVER	INTRAABDOMINAL MASS VENTRAL TO LIVER		
	EKATE				EYE	EYE	EYE		EYE	EYE :	/ENTR	EYE :	/ENTR	EYE :	/ENTR	ENTR	ENTR		
LIONS	MOD!				LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	MASS 1	LEFT	MASS \	LEFT	MASS \	ASS V	MSS V		
OBSERVA	STAIN BROWN NOSE MODEKATE				CORNEAL OPACITY LEFT EYE MODERATE	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY LEFT EYE	CORNEAL OPACITY	CORNEAL OPACITY LEFT EYE SLIGHT,	DOMINAL !	CORNEAL OPACITY LEFT EYE SLIGHT,	DOMINAL !	CORNEAL OPACITY LEFT EYE SLIGHT,	DOMINAL !	DOMINAL N	DOMINAL N		
CLINICAL	STAIN B	NORMAL	NORMAL	NORMAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	INTRAAB	CORNEAL	INTRAAB	CORNEAL	INTRAAB	INTRAAB	INTRAAB	DEATH	
WEIGHT (GRAMS)		373.0	380.0	383.0	386.0	394.0	399.0	405.0	408.0	407.0		415.0		398.0		393.0	369.0		
OPERATOR (GRAMS) CLINICAL OBSERVATIONS	0010186	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337		0034567		0084799		0000337	0000337	0000337	
TIME	10:54:44	10:41:12	12:19:02	10:31:08	9:43:18	10:21:38	9:22:06	10:01:56	10:18:22	10:11:22		10:25:52		16:15:44		10:08:48	12:32:54	9:11:24	
DATE	2/01/85	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85		10/24/85		11/21/85		12/19/85	1/16/86	1/22/86	

MEDIUM MEDIUM MEDIUM MEDIUM LARGE

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (1BC) IN MALE AND FEMALE RATS.

PAGE 128
DATE: 6/09/87
TIME: 14:40:13
EDSO17 V4M11

ANIMAL HISTORY

Group: CONTROLS Animal ID: 84D00173 Species: D Sex: MALE

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME

			a					
OFERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, STAIN BROWN NOSE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE MAKED DOCUMENT TENT FOR THE PARTY OF MOREDAM	FROLMFSEU LENS LEFT ETE MODERATE, OFAQUE LENS LEFT ETE MODERATE PRRLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED	PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED, HYPHEMIA LEFT EYE MODERATE	HYPHEMIA LEFT EYE MODERATE, PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED		OFAQUE LENS LEFT EIE FARRED OPAQUE LENS MARKED, CYST DORSAL SMALL CHAIT TENS TEST EVE MOREBARE EHFLANTED	SMALL LENS LEFT FIE HOUERAIE, EUINANIEEU
(CMAN)	458.0	461.0	4 / 3.0 4 66.0 4 7 1.0	474.0	479.0	473.0	458.0	441.0
OF ERATOR	0000337 0000337 0067831	0000337	0000337 0010186	0000337 0001576	0000037	00000337	0000337	0034367
I I'ME	10:41:36 8:45:40 3:12:42	12:19:24 8:02:42	10:31:48 9:43:50 10:23:12	9:22:44 10:02:36	8/29/85 10:18:46 0000337	10:12:58	10:27:42 12:33:36	70:44:/
DAIR	2/14/85 3/06/85 3/13/85	3/14/85	4/1/85 5/09/85 6/06/85	7/02/85 8/01/85	8/29/85	9/26/85	12/19/85	99/60/7

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

	2-CYANOACRYLATE	
•	ISOBUTYL	1/28/85
STUDY: 0083009	COMPOUND:	START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

UL/ANM
10
Group:
MALE
Sex:
a
Species:
84000174
ID:
Ar.imal

CLINICAL OBSERVATIONS	/ EUTHANIZED
CLINICAL	NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL
WEIGHT (GRAMS)	412.0 415.0 426.0 426.0 426.0 425.0 425.0 425.0 426.0 426.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0034567 0000337
TIME	10:42:54 12:19:54 10:34:06 9:45:08 10:23:54 9:24:02 10:23:50 10:21:04 10:13:50 10:13:50 10:10:10:30 12:35:14
DATE	2/14/85 3/14/35 4/11/85 5/09/55 6/06/85 7/02/85 8/01/85 8/29/85 10/24/85 11/21/85 12/19/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 130, DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

MALE Group: CONTROLS Animal ID: 84D00175 Species: D Sex:

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

														EUTHANIZED
1					_		_		_	_		_	_	`
	NORMAL	NORMAI	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	415.0	419.0	425.0	433.0	433.0	440.0	445.0	449.0	450.0	456.0	445.0	438.0	444.0	428.0
	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0000337	0000337	0034567	0084799	0000337	0000337	0034567
	10:43:14	12:20:12	10:34:38	9:45:30	10:24:16	9:24:34	10:03:42	10:21:28	10:14:16	10:28:46	16:18:12	10:10:48	12:35:30	7:47:46
	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00176 Species: D Sex: MALE Group: 10 UL/ANM

OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL 355.0 358.0 364.0 366.0 378.0 372.0 WEIGHT 0010186 0000337 0001576 0078478 0000337 0000337 0000337 0000337 10:24:34 9:25:32 10:04:04 7:06:20 10:44:10 12:20:30 10:36:30 9:45:50 TIME 6/06/85 7/02/85 3/14/85 4/11/85 5/09/85 8/01/85 8/12/85 DATE

172.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
171.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL
1 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
1869.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
1870.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
1870.0 INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
1889.0 INTRAABDOMINAL MASS SPLENIC SIZE LARGE
1889.0 INTRAABDOMINAL MASS SPLENIC SIZE LARGE MARKED, EUTHANIZED

0010186

8/29/85 9/26/85 10/16/85

0000337

0034567

11:41:26 10:14:34 9:49:04 10:29:02 16:18:54 10:11:16 7:49:04

10/24/85

11/21/85 12/19/85 1/16/86 2/05/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL J-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 137 DATE: 6/03/8/ TIME: 14:40:13 EDS017 VAMIL

Animal ID: 84D00177 Species: D Sex: MALE Group: 100 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

												Σ	MEDIUM, EUTHANIZED
												MEDIUM	
												SIZE	S12E
												LIVER	
												T0	2
												MASS VENTRAL TO	VENTRAL '
												MASS	MASS
I.	-	7	7	1	1	1	-1	1	1	11	1	NTRABBDOMINAL	NTRABBDOMINAL
NORM	NORM	NORMA	NORMAL	NORM	NORM	NORMA	NORMA	NORMA	NORM	NORM	NORMA	INTR	INTR
384.0	388.0	400.0	402.0	406.0	411.0	406.0	417.0	416.0	421.0	417.0	415.0	397.0	380.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
10:44:26	12:21:06	10:37:08	9:46:08	10:24:50	9:28:00	10:04:40	11:45:16	10:15:38	10:29:54	16:19:32	10:11:58	12:36:32	7:51:50
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLL
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS
MALE
Sex:
Species: D
84D00178
igi 1
Animal

					GHT	SLIGHT	SLIGHT, EAR SCAB RIGHT SIDE SLIGHT							NIZED
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	PAPILLOMA NOSE SLIGHT	PAPILLOMA NOSE SLIGHT	PAPILLOMA NOSE SLIGHT	PAPILLOMA NOSE SLIGHT	PAPILLOMA NOSE (RIGHT SIDE) SLIGHT	٠,		STAIN NOSE BROWN SLIGHT	PAPILLOMA RIGHT NARES SLIGHT	PAPILLOMA RIGHT NARES SLIGHT	NASAL PAPILLOMA SMALL	PAPILLOMA NOSE SIZE SMALL	PAPILLOMA NOSE SIZE SMALL	PAPILLOMA NOSE SIZE SMALL, EUTHANIZED
	405.0	411.0	425.0	431.0	445.0	446.0	452.0	456.0	457.0	459.0	449.0	444.0	445.0	432.0
OPERATOR	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
TIME	10:44:46	12:21:28	10:37:42	9:46:30	10:25:06	9:28:26	10:04:56	11:45:42	10:15:58	10:30:24	16:19:48	10:12:12	12:37:46	7:53:44
DATE	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 134
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00179 Species: D Sex: MALE Group: CONTROLS

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	OPERATOR (GRAMS) CLINICAL OBSERVATIONS
2/14/85	10:46:00	0000337	437.0	NORMAL
3/14/85	12:22:14	0078478	453.0	NORMAL
4/11/85	10:38:22	0000337	449.0	NORMAL
5/09/85	9:47:12	0000337	455.0	NORMAL
9/06/85	10:25:52	0010186	441.0	NORMAL
7/02/85	9:29:10	0000337	458.0	STAIN BROWN NOSE MODERATE
7/10/85	7:28:28	0000337		SUPURATING PREPUTIAL FISTOLA LARGE
8/01/85	10:06:06	0001576	466.0	NORMAL
8/29/85	11:46:26	0010186	473.0	NORMAL
9/26/85	10:16:50	0000337	474.0	NORMAL
10/24/85	10:31:02	0034567	470.0	NORMAL
11/21/85	16:20:26	0084799	450.0	NORMAL
12/19/85	10:12:50	0000337	450.0	NORMAL
1/16/86	12:38:18	0000337	411.0	NORMAL
1/29/86	8:33:18	0034567	340.0	SPLENIC MASS SIZE LARGE, EMACIATED MARKED, PALLOR MODERATE, ROUGH COAT MODERATE, EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009 COMPOUND: IS START DATE: I

ISOBUTYL 2-CYANOACRYLATE 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00180

		ARGE
	SLIGHT SLIGHT	NTRAABDOMINAL MASS MIDDLE ABDOMEN SIZE LARGE No observations recorded.
	SMALL SLIGHT SLIGHT SLIGHT GORSAL ASPECT) (DORSAL ASPECT)	DDLE ABDO rded.
ATIONS	SMALL SLIGHT SLIGHT SLIGHT (DORSAL	MASS MI
BSERVI	NOSE NOSE NOSE NOSE NOSE	HINAL rvatio
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL PAPILLOMA PAPILLOMA PAPILLOMA NORMAL PAPILLOMA PAPILLOMA NORMAL	INTRAABDOMINAL MASS MIDDLE * No observations recorded
WEIGHT (GRAMS)	430.0 427.0 424.0 431.0 436.0 442.0	
OPERATOR	0000337 0000337 0078478 00000337 0000337 0010186 0000337	00000337 0000337
TIME	10:46:26 18:22:30 10:39:00 8:03:16 9:47:54 10:26:06 9:29:48 10:06:48	9:02:08 12:04:16
DATE	2/14/85 3/06/85 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85	9/09/85 9/09/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083U09
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 136
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00181

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	MED I UM LARGE LARGE ARGE
	SIZE Size Size Size L
	LIVER, LIVER, LIVER,
	5555
	SCAB RIGHT EAR MODERATE NORMAL INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE LARGE * No observations recorded.
TIONS	SCAB RIGHT EAR MODERATE NORMAL NORMAL INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRAABDOMINAL MASS VENT INTRABBOMINAL MASS VENT INTRABBO
ERV!	EAR NAL NAL NAL
OBS	GHT DOMI DOMI DOMI
ICAL	B RI MAL MAL MAB MAB MAB
CLIN	•
OPERATOR (GRAMS) CLINICAL OBSERVATIONS	432.0 446.0 445.0 446.0
NTOR	337 337 337 337 337
OPER	0000337 0067831 00078478 0000337 0000337
실	2:23:24 2:23:24 2:23:24 3:47:30 3:47:30 3:48:36
TIME	10:46:40 8:15:32 12:23:24 10:39:54 7:50:59:54 8:47:30 9:48:36
œ.	2/14/85 3/13/85 3/14/85 4/11/85 4/17/85 4/17/85 5/09/85
DATE	2/14 3/13 3/13 3/14 4/11 4/17 4/25 5/09 5/10

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM

MALE

Sex:

Species: D

Animal ID: 84D00182

WEIGHT (GRAMS) CLINICAL OBSERVATIONS

OPERATOR

TIME

DATE

NORMAL NORMAL NORMAL NORMAL

450.0

10:47:28 12:23:58 10:43:18

2/14/85 3/14/85 4/11/85 5/09/85

0010186 0000337

9:50:42

10:26:36 9:31:08 10:07:34

NORMAL

445.0 458.0 458.0 458.0 459.0 454.0 450.0

440.0

0001576 0010186 0000337 0034567 0000337 0084799

11:47:02 10:17:28 10:31:26 10:36:16 10:36:16 12:38:26

6/06/85 7/02/85 8/01/85 8/29/85 9/26/85 10/24/85 11/21/85

NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, PALLOR SLIGHT
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, PALLOR MODERATE

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STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 138
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00183 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS LEFT EYE MARKED, CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS LEFT EYE MODERATE, CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS LEFT EYE MODERATE	RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE I LEFT EYE MODERATE LEFT EYE MODERATE	LEFT EYE MARKED, CONJUNCTIVITIS LEFT EYE MARKED, CONJUNCTIVITIS	CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT	CONJUNCTIVITIS RIGHT EYE SLIGHT NORMAL	CONJUNCTIVITIS ALGHI ETE MODERATE CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT, EUTHANIZED
407.0		425.0	419.0	427.0 428.0 447.0	448.0 P447.0 C4425.0 C
0000337 0000337 0000337 0078478	0034567 0000337 0000337	00000337	0000337 0000337 0001576	0010186 0000337 0034567	0084799 0000337 0000337 0034567
10:47:48 7:39:06 8:48:58 12:24:20	9:19:52 8:07:32 10:43:46	9:51:02	9:31:38 7:31:28 10:08:00	11:47:22 10:19:32 10:31:44	10:38:32 16:22:20 10:13:02 12:39:00 7:55:38
2/14/85 2/20/85 3/06/85 3/14/85	3/18/85 4/05/85 4/11/85	5/09/85	7/02/85 7/10/85 8/01/85	8/29/85 9/26/85 10/24/85	11/0//85 11/21/85 12/19/85 1/16/86 2/05/86

ANIMAL HISTORIES INDIVIDUAL (cont.):

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Species: D Animal ID: 84D00185

SMALL MEDIUM MEDIUM MEDIUM SMALL SIZE SIZE SIZE SIZE SIZE SIZE SIZE LIVER : LIVER : LIVER : LIVER : LIVER : LIVER INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI INTRABBOMINAL MASS VENTRAL TO LI STAIN BROWN NOSE SLIGHT (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 361.0 366.0 374.0 378.0 367.0 403.0 398.0 400.0 387.0 WEIGHT 365.0 OPERATOR 0067831 0078478 0000337 0010186 00001576 0001576 00002920 00002920 0004799 0000337 0000337 0000337 10:48:58 8:50:00 8:16:40 12:24:54 10:27:12 9:32:22 10:08:28 11:47:44 16:23:04 10:13:30 9:38:36 9:59:22 10:45:08 10:32:08 9:52:28 8:39:46 10:20:14 3/13/85 3/14/85 4/11/85 6/06/85 7/02/85 8/01/85 8/29/85 10/24/85 11/21/85 11/21/85 1/02/86 2/14/85 3/06/85

LARGE, PALLOR MARKED LARGE, PALLOR MARKED

LIVER

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 140
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00186 Species: D Sex: MALE Group: 10 UL/ANM

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IB
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00187 Species: D Sex: MALE Group: 100 UL/ANM

MEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

														AEDIUM, EUTHANIZED
											LARGE	MEDIUM	MEDIOM	MEDIUM, E
												SIZE		SIZE
											LIVER	LIVER	LIVER	LIVER
											ဥ	2	ဥ	5
											VENTRAL	VENTRAL	VENTRAL	VENTRAL
											MASS	MASS	MASS	MASS
NORMAL	NORMAL	NORMAL	398.0 NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	INTRABBDOMINAL	INTRABBOOMINAL	INTRABBDOMINAL	INTRAABDOMINAL
383.0	386.0	392.0	398.0	410.0	381.0	431.0	420.0	414.0	419.0	411.0		410.0	406.0	393.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0000337	0034567
10:49:36	12:25:48	10:50:26	9:55:00	10:29:04	9:33:38	10:09:10	11:50:14	10:21:56	10:33:32	16:24:28	9:36:38	10:15:02	12:40:16	7:59:08
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/12/85	12/19/85	1/16/86	2/05/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

ISOBUTYL 2-CYANOA(RYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 142 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00188

								MARKED						
WEIGHT (GRAMS) CLINICAL OBSERVATIONS								EYE BROWN						EUTHANI2ED
NL OBSEI	.,		. 1	.,		. 1		RIGHT						, / EUT
CLINICA	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	STAIN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
	363.0	368.0	372.0	377.0	377.0	381.0	395.0	387.0	387.0	391.0	378.0	380.0	375.0	355.0
OPERATOR	0000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
TIME	10:49:58	12:26:38	10:51:04	9:55:20	10:29:20	9:34:04	10:09:26	11:50:36	10:22:22	10:33:46	16:24:54	10:16:16	12:41:10	8:01:34
DATE	2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00189 Species: D Sex: MALE Group: CONTROLS

MEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85 10:50:18 0000337 419.0 NORMAL 3/14/85 12:27:08 0078478 422.0 NORMAL 4/11/85 10:51:34 0000337 433.0 NORMAL 5/09/85 9:55:40 0000337 437.0 NORMAL 6/06/85 10:29:38 0010186 445.0 NORMAL 8/19/85 10:09:38 0001576 446.0 NORMAL 9/26/85 10:25:12 0010186 442.0 NORMAL 9/26/85 10:25:14 0084799 447.0 NORMAL 10/24/85 10:16:44 0000337 438.0 NORMAL 12/19/85 10:16:44 0000337 438.0 NORMAL 11/51/86 12:41:38 0000337 432.0 NORMAL 11/6/86 12:41:38 0000337 432.0 NORMAL 11/6/86 12:41:38 0000337 432.0 NORMAL

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 144 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00190 Species: D Sex: MALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	MULTIPLE PUSTULAR TAIL LESIONS	INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED
					423.0								
0000337	00 784 78	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
10:50:40	12:27:36	10:52:08	9:56:08	10:29:54	9:35:00	10:10:10	11:51:46	10:23:14	10:34:48	16:25:40	10:16:56	12:42:00	8:04:14
2/14/85	3/14/85	4/11/85	2/09/85	6/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/02/86

Brown

PAGE 1450 DATE: 6/09/87^T TIME: 14:40:13_M EDS017 V4M11H

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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00191

CLINICAL OBSERVATIONS (GRAMS) WEIGHT OPERATOR TIME

NORMAL
NORMAL
NORMAL
SUBCUTANEOUS MASS LATERAL LEFT SIDE SIZE SMALL
SUBCUTANEOUS MASS LEFT SIDE OF CHEST SIZE MEDIUM
SUBCUTANEOUS MASS LEFT SIDE OF CHEST SIZE LARGE
SUBCUTANEOUS MASS LEFT SIDE OF CHEST SIZE LARGE
** No observations recorded. 386.0 394.0 397.0 403.0 405.0 408.0 0078478 0000337 0084799 0010186 0000337 0034567 0000337 12:27:54 10:52:36 9:56:26 10:30:16 9:35:30 10:10:32 10:51:00 2/14/85 3/14/85 4/11/85 5/09/85 6/06/85 1/02/85 8/01/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009 COMPOUND: IS START DATE: 1

ISOBUTYL 2-CYANOACRYLATE 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 146
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00192

DATE	TIME	OPERATOR	(GRAMS)	CLINICAL OBSERVATIONS
2/14/85	10:51:14	0000337	378.0	NORMAL
3/14/85	12:28:16	0078478	380.0	NORMAL
4/11/85	10:53:10	0000337	380.0	NORMAL
28/60/5	9:58:56	0000337	377.0	NORMAL
6/06/85	10:32:22	0010186	372.0	NORMAL
7/02/85	9:37:12	0000337	350.0	NORMAL
7/10/85	7:39:20	0000337		TACHYPNEA SLIGHT
8/01/85	10:12:00	0001576	368.0	NORMAL
8/29/85	11:53:36	0010186	364.0	NORMAL
9/26/85	10:23:32	0000337	361.0	NORMAL
10/24/85	10:35:06	0034567	371.0	NORMAL
11/21/85	16:26:00	0084799	368.0	NORMAL
12/19/85	10:17:18	0000337	362.0	NORMAL
1/16/86	12:43:06	0000337	361.0	NORMAL
2/05/86	8:07:48	0034567	340.0	NORMAL / FUTHANTZED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE:]

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Sex: Species: D Animal ID: 84D00193

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

NORMAL NORMAL NORMAL NORMAL NORMAL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE DEATH 425.0 438.0 444.0 448.0 449.0 0000337 0078478 0000337 0000337 0010186 0000337 10:51:48 12:28:34 10:53:38 9:59:14 10:32:42 9:37:44 4/11/85 5/09/85 6/06/85 7/02/85 2/14/85 3/14/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLA'SIART DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 148 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00195 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

													EUTHANIZED
_			_3		_	۔	. 1	. 1		. 1	. 1	. 1	``
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAI	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
406.0	410.0	416.0	411.0	421.0	434.0	443.0	439.0	441.0	456.0	456.0	451.0	449.0	430.0
0000337	0078478	00000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
10:52:10	12:28:52	10:54:04	9:59:38	10:33:04	9:40:52	10:12:22	11:53:58	10:23:52	10:35:20	16:26:20	10:17:32	12:43:20	8:08:50
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00196

	MASS, SIZE SMALL MASS, SIZE SMALL MASS VENTRAL TO LIVER, SIZE SMALL MASS VENTRAL TO LIVER SIZE SMALL MASS VENTRAL TO LIVER SIZE MEDIUM MASS VENTRAL TO LIVER SIZE MEDIUM MASS VENTRAL TO LIVER SIZE MEDIUM MASS VENTRAL TO LIVER SIZE MEDIUM MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE MASS VENTRAL TO LIVER SIZE LARGE
CLINICAL OBSERVATIONS	NORMAL STAIN BROWN NOSE SLIGHT NORMAL INTRAABDOMINAL MASS, SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO INTRAABDOMINAL MASS VENTRAL TO
WEIGHT (GRAMS)	412.0 419.0 429.0 429.0 429.0 429.0 439.0 436.0 456.0 456.0 456.0 459.0
OPERATOR	0000337 0008478 0000337 0000337 0000337 0010186 0000337 0010186 0000337 0034567
TIME	10:52:30 8:09:38 12:29:14 10:54:36 8:59:34 10:00:22 8:41:22 10:12:42 10:25:04 10:25:04 10:25:04 10:25:04 10:25:36 10:25:36
DATE	2/14/35 2/25/85 3/14/85 4/11/85 4/25/85 5/09/85 5/28/85 6/06/85 1/02/85 8/21/85 10/24/85 11/21/85 12/19/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

PAGE 150 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00197

	MARKED
	OF MOUTH MODERATE
	RATE ANGLE MOUTH
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	NORMAL STAIN BROWN NOSE MODERATE NORMAL
AL OBSE	NORMAL NORMAL
CLINIC	
Weight (Grams)	352.0 371.0 371.0 382.0 382.0 388.0 388.0 388.0 388.0 388.0
OPERATOR	0000337 0000337 0000337 0000337 0010186 0000337 0000337 0000337 0000337 0000337
TIME	10:53:16 12:29:54 11:00:20 8:00:58 10:34:22 9:42:08 10:14:48 10:25:46 8:52:14 9:56:14 10:36:10 16:27:16 10:18:28
DATE	2/14/85 3/14/85 4/11/85 4/11/85 5/09/85 6/06/85 7/02/85 10/02/85 10/16/85 11/21/85 11/21/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00198

ONS	NOSE SLIGHT SIZE LARGE
ERVATI	NOSE :
OBSI	OMN COMN
CLINICAL OBSERVATIONS	NORWAL NORWAL NORWAL NORWAL NORWAL STAIN BROWN I NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL NORWAL
WEIGHT (GRAMS)	405.0 432.0 423.0 424.0 421.0 405.0 405.0 401.0 401.0
OPERATOR	0000337 0078478 00000337 0010186 0000337 0010576 0010186 00000337 0084799
TIME	10:53:34 12:30:18 11:01:06:10 10:02:24 10:03:24 10:34:38 9:42:34 7:47:30 10:15:18 11:55:14 10:28:04 10:28:04 10:28:04
DATE	2/14/85 3/11/85 4/11/85 4/11/85 5/09/85 5/09/85 7/10/85 8/21/85 10/24/85 11/21/85 1/16/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

PAGE 152 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM MALE Species: D Sex: Animal ID: 84D00199

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

NORMAL	NORMAL	NORMAL	NORMAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, INACTIVE MARKED, ROUGH COAT MODERATE, STAIN YELLOW PERIANAL SLIGHT, ANEMIA MODERATE			
371.0	380.0	388.0	388.0		391.0	401.0	402.0	395.0	401.0	
0000337	0078478	0000337	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0084799
10:53:46	12:30:52	11:02:04	10:02:50	8:45:38	10:34:52	9:43:06	10:15:48	11:55:30	10:28:26	9:57:50
2/14/85	3/14/85	4/11/85	5/09/85	5/28/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/16/85

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00200 Species: D Sex: MALE Group: CONTROLS

	ARKED
	X
	MOUTI
	CLEAR
	NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL STAIN BROWN NOSE MODERATE STAIN BROWN NOSE SLIGHT NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL HORMAL
	3 E
SNC	MODERATE SLIGHT SLIGHT,
AT I	35 SE SE SE SE SE SE SE SE SE SE SE SE SE
ERV	NOSE NOSE
OBS	NORWAL NORWAL NORWAL NORWAL NORWAL STAIN BROWN STAIN BROWN STAIN BROWN NORWAL NORWAL NORWAL NORWAL
CAL	ALL BELL BELL BELL BELL BELL BELL BELL B
CLINICAL OBSERVATIONS	NORMAL NORMAL NORMAL NORMAL NORMAL STAIN STAIN NORMAL NORMAL NORMAL
OPERATOR (GRAMS)	455.0 461.0 470.0 470.0 475.0 480.0 481.0 433.0
ِ ا	L8LL9LL990LL6L
OPERAT	0000337 0000337 0000337 0010186 0000337 0001576 0001576 0002920 0002920 0004799
. 1	11140000000000000000000000000000000000
TIME	10:54:14 12:31:12:48 11:02:48 10:03:26 10:36:50 9:43:50 7:49:34 10:16:26 11:56:06 10:36:48 10:36:48 10:20:26 11:20:14
ŀ	
DATE	2/14/85 3/14/85 3/14/85 5/09/85 5/09/85 6/06/85 7/10/85 8/01/85 8/13/85 9/26/85 11/21/85 12/19/85
•	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 154 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00201 Species: D Sex: MALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

													EYE SLIGHT, EUTHANIZED
													LEFT
													OPACITY
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	CORNEAL
385.0	400.0	407.0	408.0	409.0	409.0	418.0	412.0	411.0	418.0	412.0	414.0	404.0	367.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0084799
10:54:34	12:31:32	11:03:28	10:03:42	10:37:06	9:44:22	10:17:30	11:56:22	10:29:28	10:37:02	16:28:10	10:22:16	12:46:26	8:12:30
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

STUDY: 0083009

COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00202 Species: D Sex: MALE Group: CONTROLS

NORMAL STAIN BROWN NOSE MODERATE NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS 3388.0 393.0 417.0 405.0 409.0 411.0 4115.0 4115.0 368.0 370.0 00078478 00000337 0010186 0000337 0001576 0010186 0034567 0084799 0000337 0000337 0000337 12:31:50 11:04:02 10:04:00 10:37:30 9:44:58 10:17:44 11:56:42 10:27:18 10:28:24 10:22:50 12:46:44 10:54:52 8:54:46 8:17:42 TIME 7/02/85 8/01/85 8/29/85 9/26/85 10/24/85 11/21/85 12/19/85 17/16/86 3/14/85 4/11/85 5/09/85 6/06/85 2/14/85 3/06/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 156 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00203 Species: D Sex: MALE Group: 10 UL/ANM

		•				
DATE	TIME	WEIGHT OPERATOR (GRAMS)		CLINICAL OBSERVATIONS		
14/85	10:55:22	0000337	398.0	NORMAL		
3/14/85	12:32:12	0078478	415.0	NORMAL		
/11/85	11:04:38	0000337	421.0	NORMAL		
5/09/85	10:04:20	0000337	417.0	NORMAL		
06/85	10:38:18	0010186	420.0	NORMAL		
02/85	9:45:48	0000337	416.0	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	SIZE MEDIUM	
7/10/85	7:51:14	0000337		INTRAABDOMINAL MASS VENTRAL TO LIVER	SIZE LARGE	
8/01/85	10:18:22	0001576	420.0	INTRAABDOMINAL MASS VENTRAL TO LIVER	SIZE MEDIUM	
8/29/85	11:57:12	0010186	427.0	INTRAABDOMINAL MASS VENTRAL TO LIVER	SIZE MEDIUM	
9/26/85	10:30:10	0000337	425.0	INTRABBOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	SIZE MEDIUM	
0/24/85	10:37:48	0034567	387.0	PORPHYRIN STAINING FACE AND HEAD, PALLOR BOTH EYE SLIGHT,	OR BOTH EYE S	LIGHT,
				INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	SIZE LARGE	
24/85	10/24/85 10:43:08 0034567	0034567	387.0	* No observations recorded.		

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) I START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00204 Species: D Sex: MALE Group: CONTROLS

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS		
CLINICAL		
WEIGHT (GRAMS)		
OPERATOR		
TIME		
DATE		
	١	,

MODERATE MARKED MARKED MODERATE MODERATE MODERATE SLIGHT SLIGHT SLIGHT	SLIGHT SLIGHT SLIGHT, EUTHANIZED
EXE EXE EXE EXE EXE EXE EXE	eye eye eye
RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT	
OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY	OPACITY OPACITY OPACITY
CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL	CORNEAL CORNEAL CORNEAL
351.0 355.0 359.0 360.0 366.0 366.0 356.0 356.0	348.0 341.0 315.0
0000337 0000337 0000337 0000337 0010186 0001576 00010186	0000337 0000337 0034567
10:55:50 12:32:32 11:05:22 10:04:34 10:38:36 9:47:32 110:19:16 11:57:48 10:39:54 10:39:54	10:23:12 12:47:12 8:19:24
2/14/85 3/14/85 4/11/85 5/09/85 6/06/85 7/02/85 8/01/85 9/26/85 10/24/85	12/19/85 1/16/86 2/05/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

PAGE 158
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Species: D Animal ID: 84D00205

Group: 10 UL/ANM WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS MALE Sex: TIME DATE

													EUTHANIZED
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
395.0	398.0	395.0	405.0	410.0	414.0	415.0	417.0	416.0	431.0	425.0	433.0	423.0	385.0
0000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
10:56:06	12:33:22	11:06:18	10:04:58	10:39:08	9:47:58	10:19:42	11:58:10	10:31:30	10:40:12	16:29:20	10:23:26	12:47:36	8:20:58
2/14/85	3/14/85	4/11/85	2/09/82	9/90/9	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/02/86

HISTORIES INDIVIDUAL ANIMAL (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM MALE Sex: Species: D Animal ID: 84D00206

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	WAL	IMAL	MAL	STAIN BROWN NOSE SLIGHT	HAL	HAL	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL	STAIN NOSE BROWN MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, EUTHANIZED
CLINIC	NORMAL	NORMAL	NORMAL	STAIN	NORMAL	NORMAL	INTRA	STAIN	INTRA	INTRA	INTRA	INTRA	INTRA	INTRA	INTRA	INTRA	INTRA
WEIGHT (GRAMS)	380.0	392.0	392.0			404.0		413.0	412.0	418.0	412.0	420.0	430.0	425.0	424.0	423.0	385.0
OPERATOR	0000337	0078478	0000337	0000337	0000337	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0034567	0084799	0000337	0000337	0034567
TIME	10:56:24	12:33:46	11:06:50	8:02:28	6:55:06	10:05:24	8:50:22	10:39:26	9:48:46	10:20:08	11:58:28	10:31:54	10:40:28	16:29:46	10:23:46	12:48:00	8:23:08
DATE	2/14/85	3/14/85	4/11/85	4/11/85	5/02/85	5/09/85	5/28/85	9/06/85	7/02/85	8/01/85	8/53/85	9/26/85	10/24/85	11/21/85	12/19/85	1/16/86	2/05/86

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 160 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00207 Species: D Sex: MALE Group: CONTROLS

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85 10:56:36 0000337 436.0 NORMAL

NORMAL NORMAL	NORMAL STAIN BROWN NOSE SLIGHT NORMAL	NORMAL STAIN NOSE BROWN SLIGHT, STAIN MOUTH BROWN SLIGHT	NORMAL NORMAL	NORWAL	NORMAL	NORMAL	NORMAL EMACIATED MODERATE, CONJUNCTIVITIS RIGHT EYE MODERATE, EUTHANI2ED
436.0	453.0	464.0 380.0	413.0	455.0	449.0	427.0	409.0 353.0
0000337	00000337 0000337 0000337	0000337 0010186	0000337	0010186	0034567	0000337	0000337 0034567
10:56:36 12:34:20	11:08:02 8:07:14 6:53:54	10:05:40	9:49:36	11:58:56	10:41:16	10:24:36	12:49:10 8:25:12
2/14/85 3/14/85	4/11/85 4/17/85 5/02/85	5/09/85 6/06/85	7/02/85 8/01/85	8/29/85	10/24/85	12/19/85	1/16/86 2/05/86

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00208 Species: D Sex: MALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/14/85 10:56:52 0000337 371.0 NORMAL 3/14/85 12:34:40 0078478 386.0 NORMAL 4/11/85 11:08:20 0000337 386.0 NORMAL 5/09/85 10:05:58 0000337 398.0 NORMAL 5/09/85 10:05:58 0000337 398.0 NORMAL 7/02/85 9:50:42 0010186 395.0 NORMAL 8/01/85 10:21:16 0001576 401.0 NORMAL 8/29/85 11:59:12 0010186 401.0 NORMAL 10/24/85 10:24:56 0000337 397.0 NORMAL 11/21/85 10:24:56 0000337 394.0 NORMAL 12/19/85 10:24:56 0000337 394.0 NORMAL 1/16/86 12:49:24 0000337 394.0 NORMAL / EUTHANIZED 2/05/86 8:26:50 0034567 368.0 NORMAL / EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: I

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 162 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: CONTROLS MALE Sex: Species: D Animal ID: 84D00209

								SLIGHT						
								MOUTH						
								Ö						
								ANGLE						
							MTE	LEFT						IZED
•							MODER	ABCESS						EUTHANIZED
	٠.	_			۔	. 1	BLE	Š			,	,		`
NORMA	NORMAI	NORMA	NORMA	NORMAI	NORMAI	NORMAI	IRRIT/	DRAINI	NORMAI	NORMAI	NORMAI	NORMAI	NORMAI	NORMAL
404.0	417.0	425.0	436.0	439.0	437.0	442.0	444.0	433.0		436.0	432.0	435.0	431.0	404.0
00000337	0078478	0000337	0000337	0010186	0000337	0001576	0010186	0000337	0000337	0034567	0084799	0000337	0000337	0034567
10:57:10	12:35:00	11:08:50	10:06:14	10:43:10	9:51:14	10:21:38	11:59:42	10:33:14	12:18:12	10:41:52	16:31:36	10:25:10	12:49:42	8:28:06
2/14/85	3/14/85	4/11/85	5/09/85	6/06/85	7/02/85	8/01/85	8/29/85	9/26/85	10/16/85	10/24/85	11/21/85	12/19/85	1/16/86	2/02/86
	10:57:10 0000337 404.0	10:57:10 0000337 404.0 12:35:00 0078478 417.0 1	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 1	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 11:08:14 0000337 436.0 1	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:43:10 0010186 439.0 p	10:57:10 0000337 404.0 N 12:35:00 0078478 417.0 N 11:08:50 0000337 425.0 N 10:06:14 0000337 436.0 N 9:51:14 0000337 437.0 N	10:57:10 0000337 404.0 N 12:35:00 0078478 417.0 N 11:08:50 0000337 425.0 N 10:06:14 0000337 436.0 N 10:43:10 0010186 439.0 N 9:51:14 0000337 437.0 N 10:21:38 0001576 442.0 N	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:43:10 0010186 439.0 10:21:38 0001576 442.0 11:59:42 0010186 444.0 1	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:43:10 0010186 439.0 9:51:14 0000337 437.0 11:59:42 0010186 444.0 10:33:14 0000337 433.0	10:57:10 0000337 404.0 11:35:00 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:43:10 0010186 439.0 11:59:42 0010186 444.0 11:59:12 0000337 433.0 12:18:12 0000337	10:57:10 0000337 404.0 11:08:50 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:43:10 0010186 439.0 9:51:14 0000337 437.0 11:59:42 0010186 444.0 10:33:14 0000337 433.0 10:41:52 0034567 436.0	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 10:66:14 0000337 436.0 10:43:10 0010186 439.0 9:51:14 0000337 437.0 10:21:38 0001576 442.0 11:59:42 0010186 444.0 10:33:14 0000337 433.0 12:18:12 0000337 436.0 16:31:36 0084799 432.0	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:21:38 0001576 442.0 10:33:14 0000337 437.0 10:33:14 0000337 433.0 10:33:14 0000337 433.0 10:33:36 0084789 432.0 10:25:10 0000337 435.0	10:57:10 0000337 404.0 12:35:00 0078478 417.0 11:08:50 0000337 425.0 10:06:14 0000337 436.0 10:21:38 0001576 442.0 10:33:14 0000337 437.0 10:21:38 0001576 442.0 11:59:42 0010186 444.0 10:33:14 0000337 433.0 10:41:52 0034567 436.0 10:25:10 0000337 432.0 12:49:42 0000337 432.0

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

CARCINGENICITY BIOASSAY C	ACRYLATE (IBC) IN MALE	
	ISOBUTYL 2-CYANOACRYLATE	1/28/85
STUDY: 0083009	COMPOUND:	START DATE:

ANIMAL HISTORY

OF ISOBUTYL 2-CYANO-: AND FEMALE RATS.

Species: D Sex: FEMALE Group: 10 UL/ANM Animal ID: 84D00257

	IGHT F	EYE SLIGHT EYE SLIGHT, EYE SLIGHT, STAIN CLEAR	SLIGHT SLIGHT SLIGHT	MODERATE MODERATE SLIGHT SLIGHT MODERATE,	KED, STAIN YELLOW
	re sui	EYE SLJ EYE SLJ EYE SLJ	EYE SLIGHT EYE SLIGHT EYE SLIGHT	EYE MOI EYE SLI EYE SLI EYE SLI	E MAR
	OTH E		OTH ENOTH ENOTH EN	EFT ENGHT EN	EFT E) X SIZI
	RIGHT EYE SLIGHT,CONJUNCTIVITIS BOTH EYE SLIGHT RIGHT EYE SLIGHT,STAIN CLEAR PERIANAL SLIGHT RIGHT EYE SLIGHT	SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT	SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT SLIGHT SLIGHT	CORNEAL OPACITY RIGHT EIE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS BOTH EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT CONNINCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE,	SUBCOLDANICOS FASS LECT SIDE INCRAS SIZE LANGE CORNEAL OPACITY RIGHT EXE SLIGHT, CONJUNCTIVITIS LEFT EYE MARKED, STAIN YELLOW PERIANAL SLIGHT, SUBCUTANEOUS MASS LEFT SIDE THORAX SIZE LARGE
	EYE EYE EYE	EYE EYE EYE	EYE EYE EYE EYE	EXE EXE FXE FXE FXE	EYE
ATIONS		K RIGHT K RIGHT K RIGHT	RIGHT RIGHT RIGHT RIGHT RIGHT	RIGHT RIGHT RIGHT ROTH EN BOTH EN ROTH EN	RIGHT
OBSERV	OPACIT OPACIT OPACIT	OPACITI OPACITI OPACITI SLIGH	OPACITIOPACITION OPACITION OPACITICON OPAC	OFACITY OPACITY OPACITY IVITIS IVITIS OPACITY OPACITY	OPACITY SLIGHT
CLINICAL OBSERVATIONS	CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY	CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY PERIANAL SLIGHT	CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE	CORNEAL OPACITY CORNEAL OPACITY CONJUNCTIVITIS E CONJUNCTIVITIS CORNEAL OPACITY CORNEAL OPACITY	CORNEAL
WEIGHT (GRAMS)	235.0	242.0	250.0 254.0 262.0 266.0	272.0 274.0 283.0 292.0	
OPERATOR	0000337 0000337 0000337	0000337 0000337 0000337	0084799 0000337 0000337 0034567	0000337 0002320 0000337 0072808 0000337	0084799
TIME	8:10:44 8:18:20 7:46:34	8:28:14 7:44:22 8:11:40	6:31:26 6:49:14 7:08:06 8:42:38 7:42:16	9:24:28 9:05:06 6:51:20 7:47:34 7:53:36	9:54:32
DATE	2/15/85 2/25/85 3/15/85	3/25/85 4/12/85 4/17/85	5/10/85 6/07/85 7/03/85 7/10/85 8/02/85	8/30/85 9/13/85 9/27/85 10/25/85 11/22/85	1/13/86

STUDY: 0083009	6		CARCINGENICITY	7
COMPOUND:	ISOBUTYL	ISOBUTYL 2-CYANOACRYLATE	ACRYLATE (IBC)	SE
START DATE:	1/28/85			

PAGE 3 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

(IBC) IN MALE AND FEMALE RATS.

Group: 10 UL/ANM

Sex: FEMALE

Species: D

Animal ID: 84D00260

BIOASSAY OF ISOBUTYL 2-CYANO-

E: 1/28/85
ANIMAL HISTORY

CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT
STAIN YELLOW PERIANAL MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT
STAIN YELLOW PERIANAL MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT, STAIN DARK PERIANAL MARKED, EMACIATED MARKED
* No observations recorded. WEIGHT (GRAMS) CLINICAL OBSERVATIONS 239.0 247.0 248.0 255.0 257.0 277.0 284.0 OPERATOR 0000337 0000337 0000337 0000337 0004567 0000337 00002920 00000337 7:35:38 7:41:12 7:10:28 7:45:50 9:25:20 9:06:52 8:34:58 7:48:20 8:05:02 TIME 2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 9/13/85 9/25/85 DATE

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-	•••	
	ISOBUTYL 2-CYANOACRYLATE	
	UTYL	1/28/85
STUDY: 0083009	ISOB	7

START DATE: 1/28/85
ANIMAL HISTORY
Animal ID: 84D00266 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCFIVITIS RIGHT EYE MODERATE	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT,	SUBCUTANEOUS MASS CERVICAL SIZE LARGE	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MARKED,	SUBCUTANEOUS MASS CERVICAL SIZE LARGE	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE,	SUBCUTANEOUS MASS CERVICAL SIZE LARGE	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT,	SUBCUTANEOUS MASS CERVICAL SIZE LARGE	CORNEAL OPACITY RIGHT EYE SLIGHT, SUBCUTANEOUS MASS CERVICAL SIZE LARGE	CORNEAL OPACITY RIGHT EYE, CONJUNCTIVITIS RIGHT EYE MODERATE,	SUBCUTANEOUS MASS CERVICAL SIZE LARGE	LIVE ANIMAL SENT TO NECROPSY 3 OCT 1985 NOT REMOVED FROM CENSUS AT THAT TIME
CORNEAL O	CORNEAL O	CORNEAL 0	CORNEAL O	CORNEAL O	CORNEAL O	CORNEAL O	SUBCUTANE	CORNEAL O	SUBCUTANE	CORNEAL O	SUBCUTANE	CORNEAL O	SUBCUTANE	CORNEAL O	CORNEAL O	SUBCUTANE	LIVE ANIM
236.0	245.0		250.0	266.0		275.0		287.0		282.0		283.0		278.0			
0000337	0000337	0084799	0000337	0000337	0000337	0000337		0000337		0084799		0000337		0084799	0000337		0000337
8:34:22	7:48:44	8:23:28	8:05:34	7:36:28	8:56:46	7:41:32		7:11:24		7:46:28		9:25:48		7:16:14	8:58:24		8:32:52
2/15/85	3/15/85	4/05/85	4/12/85	5/10/85	5/28/85	6/07/85		7/03/85		8/02/85		8/30/85		9/21/85	10/02/85		10/11/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 5 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00268 Species: D Sex: FEMALE Group: CONTROLS

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		EYE SLIGHT, STAIN BROWN EYE SLIGHT EYE SLIGHT . EYE SLIGHT
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		S BO S BO S RIG
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commo crocks commo	OBSERVAT	00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY 00ACITY
	CLINICAL	CORNEAL OPA CORNEAL OPA
	WEIGHT (GRAMS)	237.0 246.0 247.0 256.0 275.0 272.0 271.0 277.0 277.0 273.0
	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
99700719	TIME	8:35:06 8:21:22 9:00:54 7:50:10 8:06:48 7:146:16 7:149:18 9:28:22 9:12:06 7:18:14 7:55:08
Animal IU: 64D00206	DATE	2/15/85 2/25/85 3/06/85 3/15/85 4/12/85 5/10/85 6/07/85 9/13/85 9/13/85 11/22/85 11/22/85 11/22/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC)
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00269 Species: D Sex: FEMALE Group: 100 UL/ANM

WE IGHT

OPERATOR (GRAMS) CLINICAL OBSERVATIONS	VITIS BOTH EYE SLIGHT	CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS RIGHT EYE MODERATE	VITIS RIGHT EYE MODERATE VITIS RIGHT EYE SLIGHT	VITIS RIGHT EYE SLIGHT VITIS RIGHT EYE MODERATE	VITIS BOTH EYE MODERATE VITIS BOTH EYE MODERATE	VITIS BOTH EYE MODERATE VITIS RIGHT EYE MODERATE	CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS RIGHT EYE SLIGHT	VITIS RIGHT EYE SLIGHT		CONJUNCTIVITIS RIGHT EYE MODERATE, EUTHANIZED
CLINICAL O	NORMAL CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	NORMAL	CONJUNCTI
(GRAMS)	223.0	235.0	234.0	256.0	260.0	268.0	277.0	278.0	278.0	259.0
OPERATOR	0000337	0000337	0000337	0000337	0000337	0034567	0002920	0072808	00000337	0034567
TIME	8:36:16	7:50:42	8:07:30	7:37:34	7:46:58	7:49:44	9:13:48	7:50:26	8:32:16 8:03:26	7:44:28
DATE	2/15/85	3/15/85	4/12/85	5/10/85	6/07/85	8/02/85	9/13/85	10/25/85	12/20/85	2/01/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACR
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 7 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00270 Species: D Sex: FEMALE Group: 10 UL/ANM

MEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

		SLIGHT, STAIN BROWN NOSE SLIGHT SLIGHT													
	!	NOSE													
		BROWN													IANIZED
	;	STAIN					3		E	E.		<u>ea</u>	į,	ω	E, EUTH
	SLIGHT	SLIGHT, SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	MODERATE	MARKED	MODERATE	MODERATE	MARKED	MODERATE	MODERATE	MODERATE	MODERATE, EUTHANIZED
	EYE	EYE	EXE	EYE	EXE	EYE	EYE	EXE	EYE	EYE	EXE	EYE	EYE	EYE	EYE
TIONS	LEFT	LEFT	LEFT	BOTH	LEFT										
OBSERVA	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS	IVITIS
CLINICAL OBSERVATIONS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS
(GRAMS)	243.0	261.0	255.0		270.0	270.0	278.0	283.0	290.0	293.0	305.0	305.0	306.0	309.0	293.0
OPERATOR	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
TIME	8:36:32	9:03:02	8:08:02	8:16:46	7:38:20	7:47:36	7:17:26	7:50:54	9:29:38	7:19:40	7:50:50	7:56:36	8:32:38	8:03:42	7:46:24
DATE	2/15/85	3/06/85	4/12/85	4/11/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/17/86	2/01/86

F (cont.): INDIVIDUAL ANIMAL HISTORIES

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

Appendix

PAGE 80 DATE: 6/09/87 TIME: 14:40:130 EDS017 V4M11

--232

ANIMAL HISTORY

Animal ID: 84D00271 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT

EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, STAIN BROWN CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, DEHYDRATED CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, DEHYDRATEL EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, STAIN CLEAR EYE MARKED, EMACIATED SLIGHT SLIGHT, EUTHANI ZED CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA MODERATE, EMACIATED MODERATE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA MODERATE MODERATE BOTH EYE MODERATE EYE MARKED EYE MARKED MARKED SLIGHT SLIGHT SLIGHT BOTH EYE LEFT EYE EYE EYE EYE SLIGHT, CONJUNCTIVITIS BOTH EYE BOTH LEFT LEFT BOTH BOTH BOTH MODERATE, ROUGH COAT MODERATE, EMACIATED MODERATE SLIGHT, CONJUNCTIVITIS EYE SLIGHT, CONJUNCTIVITIS MODERATE, EMACIATED MODERATE EYE LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT (GRAMS) CLINICAL OBSERVATIONS CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY OPACITY PERIANAL SLIGHT CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY OPACITY OPACITY NOSE SLIGHT MODERATE CORNEAL CORNEAL CORNEAL SLIGHT SLIGHT 212.0 210.0 218.0 217.0 2217.0 224.0 228.0 237.0 235.0 208.0 198.0 203.0 197.0 206.0 OPERATOR 00000337 0000337 0072808 0000337 0084799 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0000337 0034567 8:36:52 9:03:50 7:02:40 7:38:50 7:51:26 8:32:20 8:27:52 8:08:58 9:11:38 7:45:46 :47:56 8:18:14 8:59:52 :18:32 :51:20 9:30:02 7:20:14 7:51:14 7:56:58 8:32:56 8:04:08 7:48:32 TIME 8/02/85 8/30/85 1/17/86 2/07/86 6/07/85 7/03/85 3/15/85 3/25/85 4/11/85 4/25/85 5/02/85 5/01/85 5/10/85 5/28/85 9/27/85 12/20/85 2/15/85 3/06/85 4/05/85 1/12/85 0/25/85 11/22/85 DATE

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGGENICITY 910ASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 9 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Species: D Sex: FEMALE Group: 10 UL/ANM Animal ID: 84D00272

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

2/15/85	8:37:22	0000337	219.0	CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH 1	EYE	SLIGHT
3/15/85	7:52:10	0000337	230.0	CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH	EXE	SLIGHT
4/05/85	8:30:12	0000337		CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	LIGHT, CONJUNCTIVITIS	LEFT	EYE	MODERATE
4/12/85	8:09:50	0000337	233.0	CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	LIGHT, CONJUNCTIVITIS	LEFT 1	EYE	MODERATE
5/10/85	7:39:40	0000337	247.0	CONNEAL	OPACITY	BOTH 1	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	LEFT	EYE	MODERATE
6/01/85	7:49:08	0000337	255.0	CORNEAL	OPACITY	BOTH 1	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH 1	EYE	MARKED
7/03/85	7:19:32	0000337	267.0	CORNEAL	OPACITY	BOTH 1	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH 1	EYE	MARKED
7/10/85	8:47:36	0000337		CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH 1	EYE	MODERATE
8/02/85	7:52:00	0034567	270.0	CORNEAL	OPACITY	BOTH 1	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH 1	EYE	MODERATE
8/30/85	9:30:38	0000337	273.0	CORNEAL	OPACITY	BOTH	EXE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH 1	EXE	SLIGHT
9/13/85	9:16:38	0002920		CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	BOTH	EYE	HODERATE
9/21/85	7:20:38	0000337	273.0	CORNEAL	OPACITY	BOTH	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	LEFT I	EYE	HODERATE
0/25/85	7:52:04	0072808	282.0	CORNEAL	OPACITY	BOTH 1	EYE	SLIGHT,	SLIGHT, CONJUNCTIVITIS	LEFT 1	EYE	MODERATE
11/22/85	7:57:50	0000337	280.0	CORNEAL	OPACITY	BOTH 1	EYE	SLIGHT				
12/20/85	8:33:16	0000337	284.0	CORNEAL	OPACITY		EXE	SLIGHT				
1/11/86	8:04:30	0000337	284.0	CORNEAL	OPACITY	BOTH	EXE	SLIGHT				
2/07/86	7:49:56	0034567	267.0	CORNEAL	OPACITY	BOTH	EXE	SLIGHT,	LIGHT, EUTHANIZED			

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN MALE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00273 Species: D Sex: FEMALE Group: 100 UL/ANM

OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, OPAQUE LENS LEFT EYE MARKED, LEFT EYE MODERATE, EXOPHTHALMOS LEFT EYE SLIGHT LEFT EYE MODERATE, EXOPHTHALMOS LEFT EYE SLIGHT, TACHYPNEA CORPTAL OPACITY LEFT EXE MODERATE, EXOPHTHALMOS LEFT EYE SLIGHT, TACHYPNEA CORNEAL OPACITY LEFT EYE MODERATE, EXOPHTHALMOS LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE MODERATE, EXOPHTHALMOS LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE MODERATE, EXOPHTHALMOS LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, EXOPHTHALMOS LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, EXOPHTHALMOS LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY LEFT EYE SLIGHT, EXOPHTHALMOS LEFT SYE SLIGHT CORNEAL OPACITY LEFT EYE MARKED, EXOPHTHALMOS LEFT EYE SLIGHT EXOPHTHALMOS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE SLIGHT SLIGHT, WHEEZING SLIGHT (GRAMS) CLINICAL OBSERVATIONS CORNEAL OPACITY CORNEAL OPACITY SLIGHT 294.0 304.0 309.0 286.0 305.0 236.0 247.0 245.0 WEIGHT 258.0 OPERATOR 0000337 0084799 0000337 0000337 0000337 0000337 0000337 0084799 0000337 0000337 0000337 0000337 0000337 0034567 8:10:348:20:40 7:40:12 9:02:10 7:52:30 7:52:54 8:31:40 8:38:32 9:05:42 7:52:38 7:50:00 7:20:06 7:21:16 12:24:14 TIME 10/16/85 10/25/85 11/18/85 5/28/85 3/15/85 5/10/85 6/07/85 2/15/85 3/06/85 4/05/85 4/12/85 4/11/85 7/03/85 8/02/85 8/30/85 9/27/85 DATE

EMACIATED MODERATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 11 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00275 Species: D Sex: FEMALE Group: 100 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

				FT EYE MODERATE									
IGHT	RKED	DERATE	RKED	CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE	DERATE	RKED	RKED	RKED,	NTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE	RKED,	NTRABBOOLINAL MASS VENTRAL TO LIVER SIZF LARGE	RKED,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
RIGHT EYE SL	RIGHT EYE MA	RIGHT EYE MO	RIGHT EYE MA	RIGHT EYE MA	RIGHT EYE MO	RIGHT EYE MA	RIGHT EYE MA	RIGHT EYE MA	MASS VENTRAL	RIGHT EYE MA	MASS VENTRAL	RIGHT EYE MA	MASS VENTRAL
_	CONJUNCTIVITIS RIGHT EYE MARKED	CONJUNCTIVITIS RIGHT EYE MODERATE	CONJUNCTIVITIS RIGHT EYE MARKED	CONJUNCTIVITIS	CONJUNCTIVITIS RIGHT EYE MODERATE	CONJUNCTIVITIS RIGHT EYE MARKED	CONJUNCTIVITIS RIGHT EYE MARKED	CONJUNCTIVITIS RIGHT EYE MARKED,	INTRABBOOMINAL	CONJUNCTIVITIS RIGHT EYE MARKED,	INTRABBDOLINAL	CONJUNCTIVITIS RIGHT EYE MARKED,	INTRABBOOMINAL
276.0		287.0			296.0		295.0			300.0			
_	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0000337		0000337		0000337	
8:38:54	8:25:46	7:53:32	8:34:34	8:32:56	8:11:38	8:21:42	7:41:36	9:02:00		7:52:42		7:20:08 0000337	
2/15/85	2/25/85	3/15/85	3/25/85	4/05/85	4/12/85	4/1//85	5/10/85	5/28/85		6/01/85		6/14/85	

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 12 a DATE: 6/09/87 TIME: 14:40:13 a EDS017 V4M11 P

ANIMAL HISTORY

Group: CONTROLS Sex: FEMALE Species: D

Animal ID: 84D00278

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

	IZE LAF	LARGE
	reg s	SIZE
MODERATE SLIGHT SLIGHT SLIGHT MODERATE MODERATE MODERATE SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT MARKED,	SUBCUTANEOUS MASS PERIHUMEROUS RIGHT LEG SIZE LAI CONJUNCTIVITIS LEFT EYE MARKED,	SUBCUTANEOUS MASS RIGHT SIDE HUMERUS SIZE LARGE CONJUNCTIVITIS LEFT EYE MARKED, SUBCUTANEOUS MASS RIGHT SIDE HUMERUS SIZE LARGE
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LEFT LEFT LEFT S LEFT S BOTH S BOTH S LEFT LEFT LEFT LEFT LEFT LEFT LEFT	ASS LEF	ASS LEF
CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE MARKED,	SUBCUTANEOUS MASS PERIHUMEROUS CONJUNCTIVITIS LEFT EYE MARKED,	SUBCUTANEOUS MASS RIGHT SIDE HU CONJUNCTIVITIS LEFT EYE MARKED, SUBCUTANEOUS MASS RIGHT SIDE HU
225.0 237.0 234.0 246.0 239.0 260.0 260.0 276.0	283.0	
0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337	0084799	0000337
8:26:28 7:54:12 8:35:16 8:35:16 8:12:16 8:22:26 7:41:58 7:54:48 7:52:34 7:53:48	7:22:54	11:17:38
2/15/85 2/25/85 3/15/85 3/25/85 4/12/85 4/17/85 6/07/85 6/07/85 8/02/85 9/09/85	9/27/85	10/17/85

LARGE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 13 DATE: 6/09/8/ TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00279 Species: D Sex: FEMALE Group: 10 UL/ANM

MEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED, STAIN CLEAR PERIANAL SLIGHT, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, STAIN CLEAR PERIANAL SLIGHT, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED MORIBUND * No observations recorded.
CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH MORIBUND * No observations re
231.0 241.0 254.0 261.0 266.0 273.0
00000337 00000337 00000337 00000337 00000337 00000337 00000337
8:40;34 8:27:06 9:07:48 7:54:46 8:36:18 8:12:50 7:55:26 7:53:16 7:57:36 13:52:18
2/15/85 2/25/85 3/06/85 3/15/85 4/12/85 6/07/85 6/07/85 8/10/85 8/10/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE AC
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00280 Species: D Sex: FEMALE Group: CONTROLS

CLINICAL OBSERVATIONS (GRAMS) WEIGHT OPERATOR TIME DATE

SLIGHT, TACHYPNEA SLIGHT, STAIN CLEAR PERIANAL SLIGHT SLIGHT, TACHYPNEA SLIGHT, STAIN CLEAR PERIANAL SLIGHT BOTH EYE SLIGHT, SPLENIC MASS SIZE MEDIUM BOTH EYE SLIGHT, SPLENIC MASS SIZE MEDIUM, PALLOR MODERATE PALLOR MODERATE, CORNEAL OPACITY EYE SLIGHT, SPLENIC MASS SIZE LARGE BOTH EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT BOTH EYE SLIGHT BOTH EYE SLIGHT SLIGHT, STAIN CLEAR PERIANAL SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT, MASS PERIVAGINAL MODERATE CORNEAL OPACITY BOTH EYE SLIGHT, PERIVAGINAL MASS MEDIUM PALLOR MODERATE, CORNEAL OPACITY BOTH EYE SLIGHT, INTRAMBDOMINAL MASS SPLENIC SIZE LARGE, SUBJUTANEOUS MASS PERIGENITAL SIZE MEDIUM SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT BOTH EYE BOTH EYE CORNEAL OPACITY BOTH EYE CORNEAL OPACITY BOTH EYE CORNEAL OPACITY BOTH EYE EYE BOTH EYE BOTH EYE BOTH BOTH CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL 277.0 235.0 262.0 274.0 234.0 267.0 241.0 249.0 207.0 254.0 277.0 258.0 260.0 247.0 0000337 0084799 0000337 0000337 0000337 0034567 0002920 0072808 0000337 0000337 0084799 0000337 0000337 0000337 0000337 0000337 0000337 0000337 8:41:00 9:08:58 9:42:12 8:04:52 1:55:30 7:56:40 7:23:46 9:26:30 7:56:08 7:58:14 8:36:12 8:13:44 8:24:32 :42:54 7:56:14 7:57:58 7:24:44 9:36:04 12/12/85 1/11/86 3/06/85 3/15/85 4/05/85 4/12/85 4/11/85 5/10/85 6/07/85 6/01/85 7/03/85 8/02/85 8/30/85 9/27/85 0/23/85 10/25/85 11/22/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 15 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00282 Species: D Sex: FEMALE Group: 10 UL/ANM

	VENTRAL TO LIVER SIZE SMALL VENTRAL TO LIVER SIZE SMALL VENTRAL TO LIVER SIZE SMALL VENTRAL TO LIVER SIZE MEDIUM VENTRAL TO LIVER SIZE MEDIUM VENTRAL TO LIVER SIZE MEDIUM VENTRAL TO LIVER SIZE MEDIUM VENTRAL TO LIVER SIZE MEDIUM
ERVATIONS	MASS MASS MASS MASS MASS MASS
CLINICAL OBSERVATIONS	NORMAL NO
WEIGHT (GRAMS)	227.0 237.0 235.0 242.0 239.0 239.0 244.0 263.0 263.0 263.0 263.0
WEIGHT OPERATOR (GRAMS)	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	8:41:20 8:17:40 8:17:40 7:543:18 7:54:14 7:54:14 7:55:04 7:55:04 7:57:56 8:00:46 8:36:08
DATE	2/15/85 3/15/85 3/15/85 4/12/85 6/07/85 7/03/85 8/02/85 10/25/85 11/22/85 11/22/85 11/22/85

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Species: D Sex: FEMALE Group: 10 UL/ANM Animal ID: 84D00284

			WEIGHT									
DATE	TIME	OPERATOR	(GRAMS)	OPERATOR (GRAMS) CLINICAL OBSERVATIONS	OBSERVA	TIONS						
2/15/85	8:41:42	0000337	221.0	CORNEAL	CORNEAL OPACITY BOTH	BOTH E	SYE S	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT	rris 1	EFT E	YE SLIG	HT
3/15/85	8:18:00	0000337	227.0	CORNEAL	CORNEAL OPACITY BOTH		SYE S	EYE SLIGHT				
4/12/85	8:15:22	0000337	225.0	CORNEAL	CORNEAL OPACITY BOTH		EYE S	SLIGHT, CONJUNCTIVITIS LEFT EYE	ITIS I	EFT E	YE SLIGHT	HI
4/11/85	8:26:04	0000337		CORNEAL	CORNEAL OPACITY BOTH	BOTH E	EYE S	SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE,	TIS L	EFT E	XE MODE	RATE,
				CONJUNC	CONJUNCTIVITIS RIGHT	RIGHT L	EYE S	SLIGHT				
5/10/85	7:43:40	0000337	237.0	CORNEAL	CORNEAL OPACITY BOTH	BOTH E	SXE S	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE	ITIS L	EFT E	XE MODE	RATE
6/07/85	7:57:18	0000337	242.0	CORNEAL	CORNEAL OPACITY BOTH		TYE S	EXE SLIGHT, CONJUNCTIVITIS LEFT	ITIS L		EYE MARKED	ED .
7/03/85	7:24:44	0000337	259.0	CORNEAL	CORNEAL OPACITY BOTH		SXE S	EXE SLIGHT, CONJUNCTIVITIS LEFT	ITIS L		EYE MARKED	ED
8/02/85	7:58:42	0034567	263.0	CORNEAL	CORNEAL OPACITY BOTH		EXE S	SLIGHT, CONJUNCTIVITIS LEFT	ITIS 1		EYE MARKED	ED
8/30/85	9:37:48	0000337	259.0	CORNEAL	CORNEAL OPACITY	BOTH	EYE S	SLIGHT, CONJUNCTIVITIS LEFT	ITIS I		EYE MARKED	ED
9/27/85	7:25:56	0000337	269.0	CORNEAL	CORNEAL OPACITY	BOTH	SXE S	EYE SLIGHT, CONJUNCTIVITIS	ITIS I	LEFT E	EYE MARKED	ED
10/25/85	7:58:58	0072808	271.0	CORNEAL	CORNEAL OPACITY BOTH		SYE S	EYE SLIGHT, CONJUNCTIVITIS	ITIS I	LEFT E	EYE MARKED	ED
11/22/85	8:01:56	0000337	275.0	CORNEAL	CORNEAL OPACITY BOTH		SYE S	EYE SLIGHT, CONJUNCTIVITIS	ITIS I	LEFT E	EYE SLIGHT	HI
12/20/85	8:37:04	0000337	272.0	CORNEAL	CORNEAL OPACITY BOTH		TYE S	EYE SLIGHT, CONJUNCTIVITIS	I SILI	LEFT E	EYE MODE	MODERATE
1/11/86	8:09:22	0000337	273.0	CORNEAL	CORNEAL OPACITY BOTH		SYE S	EYE SLIGHT, CONJUNCTIVITIS LEFT	ITIS L		EYE SLIGHT	HT
2/01/86	7:54:30	0034567	262.0	CORNEAL	CORNEAL OPACITY BOTH		SXE S	EYE SLIGHT, CONJUNCTIVITIS LEFT	TIS I		EXE SLIG	SLIGHT, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 17 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00285 Species: D Sex: FEMALE Group: CONTROLS

															PALLOR
	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT	SLIGHT, PALLOR
	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EXE	EYE	EYE	EYE	EYE	a ka
	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT		LEFT
	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY
AVATIONS	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CONJUNCTIVITY RIGHT EYE SIGHT	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CONJUNCTIVITS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CONJUNCTIVITIS RIGHT EYE MODERATE	CONJUNCTIVITIS RIGHT EYE MODERATE, CORNEAL OPACITY LEFT CONJUNCTIVITIS RIGHT EYE MODERATE	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE CONJUNCTIVITIS RIGHT EYE MODERATE	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT CONJUNCTIVITIS RIGHT EYE MODERATE	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT CONJUNCTIVITIS RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE CONJUNCTIVITIS RIGHT EYE SLIGHT	ATE, CORNEAL ATE, CORNEAL	EYE MODERATE, CORNEAL
CLINICAL OBSERVATIONS	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACI	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT MODERATE, EUTHANIZED
WEIGHT (GRAMS)	237.0		247.0	245.0		252.0	248.0	255.0	264.0	278.0	280.0	278.0	287.0	286.0	249.0
OPERATOR	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	00000337	0034567
TIME	8:42:26	8:29:04	8:18:24	8:16:18	8:27:14	7:44:16	7:58:08	7:25:18	7:59:12	9:38:12	7:26:18	7:59:42	8:02:30	8:10:24	7:55:46
DATE	2/15/85	2/25/85	3/15/85	4/12/85	4/11/85	5/10/85	6/07/85	7/03/85	8/02/85	8/30/82	9/21/85	10/25/85	11/22/85	12/20/85	2/01/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00286 Species: D Sex: FEMALE Group: 100 UL/ANM

WEISHT
DATE TIME OPERATOR (GFAMS) CLINICAL OBSERVATIONS

CORNEAL OPACITY RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT	CORNEAL OPACITY RIGHT EYE SLIGHT,	INTRAADOMINAL MASS VENTRAL TO LIVER SIZE SMALL	CORNEAL OPACITY RIGHT EYE SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, OCULAR PALLOR SLIGHT	* No observations recorded.
					234.0		240.0		237.0
0000337	0000337	0000337	0000337	0000337	0000337		0034567		0034567
8:43:02	8:18:46	8:17:12	7:44:52	7:58:36	7:25:58		7:59:34 0034567		8/02/85 10:51:04 0034567
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85		8/05/85		8/05/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 19 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

UL/ANM
10
Group:
FEMALE
Sex:
۵
Species:
84000287
:01
Animal

7:58:52 0084799 CONJUNCTIVITIS LEFT EYE MARKED 8:34:58 0000337 CONJUNCTIVITIS LEFT EYE MARKED 8:43:48 0000337 CONJUNCTIVITIS LEFT EYE MARKED, OPAQUE LENS LEFT ENCLAPEED LENS LEFT EYE MARKED, OPAQUE LENS LEFT ENCLAPEED LENS LEFT EYE MARKED, OPAQUE LENS LEFT ENCLAPEED LENS LEFT EYE MARKED, OPAQUE LENS LEFT 8:19:04 0000337 230.0 PROLAPEED LENS LEFT EYE MARKED, OPAQUE LENS LEFT MODERATE, CONJUNCTIVITIS LEFT EYE MARKED, OPAQUE LENS LEFT MODERATE, CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT 7:45:16 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT PROLAPEED LENS LEFT EYE MARKED, PROLAPSED LENS LEFT 7:59:00 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT 7:59:00 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT PROLAPSED LENS LEFT EYE MARKED, PROLAPSED LENS LEFT 7:59:00 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT 8:53:34 0000337 236.0 CONJUNCTIVITIS LEFT EYE MARKED, OPAQUE LENS LEFT PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT 8:06:32 0084799 250.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE WARKED, PROPAGUE LENS LEFT EYE	DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
8:34:58 0000337 CONJUNCTIVITS LEFT EVE MARKED, PROJECT LENS LEFT EVE MARKED, PROJECT LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, PROJECT ENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, PROJECT ENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE SALIGHT, OPAQUE LENS LEFT EVE SALIGHT, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE SALIGHT, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE SALIGHT, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE SALIGHT, OPAQUE LENS LEFT EVE MARKED, OPAQUE LENS LEFT EVE	2/04/85	7:58:52	0084799		CONJUNCTIVITIS LEFT EYE SLIGHT, PROLAPSED LENS LEFT EYE MARKED,
### ### ### ### ### ### ### ### ### ##	2/08/85	8:34:58	0000337		CONJUNCTIVITIS LEFT EYE MARKED,
### ### ##############################	•				Y LEFT
9:11:06 0000337	2/15/85	8:43:48	0084799	229.0	LENS LEFT EYE MARKED,OPAQUE Koderate
### ### ### ### ### ### ### ### ### ##	3/06/85	9:11:06	0000337		PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE, TACHYPNEA MODERATE
### ##################################	3/15/85	8:19:04	0000337	230.0	PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, TACHYPNEA SLIGHT, WHEEZING SLIGHT, CONJUNCTIVITIS LEFT EXE MARKED
### 17:40 0000337 229.0 CONJUNCTIVITIS LEFT EYE MARKED 7:45:16 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED 7:59:00 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED 7:29:50 0000337 236.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE #### 17:29:50 0000337 236.0 CONJUNCTIVITIS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED 9:38:40 000837 250.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE MARKED 8:00:40 0072808 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE HER EXE SLIGHT, OPAQUE LENS LEFT EYE HER EXE SLIGHT, OPAQUE LENS LEFT EYE HER EXE SLIGHT, OPAQUE LENS LEFT EYE NEW BRITT OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EXE SLIGHT, OPAQUE LENS LEFT EYE EXECUTED. 8:252 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EXET EYE EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LEFT EYE EXECUTED. 8:260 0000337 278.0 CONJUNCTIVITIS LE	3/25/85	8:40:10	0000337		PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, TACHYPNEA MODERATE, CONJUNCTIVITIS LEFT EYE MARKED
7:45:16 0000337 233.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED 7:59:00 0000337 237.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED 7:29:50 0000337 236.0 CONJUNCTIVITIS LEFT EYE MARKED, OPAQUE LENS LEFT EYE OPAQUE LENS LEFT EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE MARKED 8:00:40 0072808 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE MARKED 8:02:52 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE MARKED 8:06:40 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE MARKED 9:06:40 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE NEW ENTANCE CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE NEW ENTANCE CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE NEW ENTANCE CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE SLIGHT, OPAQUE LENS LEFT EYE EXEMPLED CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EXECUTED CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EXCIPCT OPAQUE LENS LEFT EYE EXEMPLED CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EXTERT OPAQUE LENS LEFT EYE EXEMPLED CONJUNCTIVITIS LEFT EYE EXEMPLED CONDUSTIVE LENS LEFT	4/12/85	8:17:40	0000337	229.0	EXE
7:59:00 0000337 237.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED 7:29:50 0000337 236.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, ORAQUE LENS LEFT EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED ORAQUE LENS LEFT EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE B SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE B SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONJUNCTIVITIS LEFT EYE B SLIGHT, OPAQUE LENS LEFT EYE B SOON CONSTANT OF CONSTANT	5/10/85	7:45:16	0000337	233.0	LENS LEFT EYE
7:29:50 0000337 236.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MODGRATE PROLAPSED LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE PROCA 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EYE SLIGHT, OPAQUE LENS LEFT EYE EYE EYE EYE EYE EYE EYE EYE EYE EY	9//0/9	7:59:00	0000337	237.0	LEFT EYE
8:53:34 0000337 CONJUNCTIVITIS LEFT EYE MARKED, PAQUE LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, OPAQUE LENS LEFT EYE MARKED, PROLAPSED LENS LEFT EYE OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE OPAQUE LENS LEFT EYE MARKED PROLAPSED LENS LEFT EYE OPAQUE LENS LEFT EYE MARKED OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:00:40 0072808 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:05:52 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 9:38:00 0000337 288.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE PROJECT OPAQUE	7/03/85	7:29:50	0000337	236.0	OPAQUE LENS LEFT EYE
8:06:32 0084799 250.0 CONJUNCTIVITIS LEFT EYE MARKED, PROLAPSED LENS LEFT E OPAQUE LENS LEFT EYE MARKED 9:38:40 0084799 268.0 CONJUNCTIVITIS LEFT EYE SLIGHT, PROLAPSED LENS LEFT E OPAQUE LENS LEFT EYE SLIGHT, PROLAPSED LENS LEFT EYE 8:00:40 0072808 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:02:52 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 288.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 298.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:30 0000337 288.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXESTINATED OPAQUE LENS LEFT EYE EXECUTED OPAQUE LENS LEFT EXE EXECUTED OPAQUE LENS LEFT EXE EXECUTED OPAQUE LENS LEFT EXE EXECUTED OPAQUE	7/10/85	8:53:34	0000337		LEFT EYE MARKED, OPAQUE LENS LEFT EYE
9:38:40 0084799 268.0 CONJUNCTIVITISIEET EYE MARKED 7:26:44 0000337 270.0 CONJUNCTIVITISIEET EYE MARKED 8:00:40 0072808 278.0 CONJUNCTIVITISIEET EYE SLIGHT, OPAQUE LENS LEFT EYE 8:02:52 0000337 278.0 CONJUNCTIVITISIEET EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 278.0 CONJUNCTIVITISIEET EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 288.0 CONJUNCTIVITISIEET EYE SLIGHT, OPAQUE LENS LEFT EYE 8:10:46 0084799 298.0 CONJUNCTIVITISIEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:10:46 0084799 298.0 CONJUNCTIVITISIEFT EYE MARKED OPAQUE LENS LEFT EYE	8/02/85	8:06:32	0084799	250.0	
7:26:44 0000337 270.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:00:40 0072808 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:02:52 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 0000337 288.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:10:46 00084799 298.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 3:67:13 0034547 270 0 CONJUNCTIVITIS LEFT EYE MARKEN OPAQUE LENS LEFT EYE EXE	8/30/85	9:38:40	0084799	268.0	EYE
8:00:40 0072808 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:02:52 0000337 278.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:38:00 00000337 208.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:10:46 00084799 299.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 3:50 00084799 290.0 CONJUNCTIVITIS LEFT EYE MARKEN OPAQUE LENS LEFT EYE	9/27/85	7:26:44	0000337	270.0	LENS LEFT EYE
8:38:00 0000337 288.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 8:10:46 0084799 298.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 3.53.13 0034557 270 0 CONJUNCTIVITIS LEFT EYE MARKEN OPAQUE LENS LEFT EYE	10/25/85	8:00:40	0072808	278.0	LEFT EYE SLIGHT, OPAQUE LENS LEFT EIE LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE
8:10:46 0084799 298.0 CONJUNCTIVITIS LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE 3.53.13 0034567 230.0 CONJUNCTIVITIS LEFT EYE MARKED. DRAGIE LENS LEFT EYE	12/20/85	8:38:00	0000337	288.0	LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE
TO THE CHIEF TO THE TITLE TO THE TITLE TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL	1/17/86 2/07/86	8:10:46	0084799	298.0 270.0	LEFT EYE SLIGHT, OPAQUE LENS LEFT EYE LEFT EYE LEFT EYE MARKED, OPAQUE LENS LEFT EYE

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00288 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 21 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00289

DATE	<u>.</u> ا	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS	OBSERVAT	LIONS			
2/15/	/85	8:47:22	00000337	218.0	CORNEAL	OPACITY	LEFT	EYE	SLIGHT	
3/15/	/85	8:24:42	0000337	215.0	CORNEAL	OPACITY		EYE		
4/12/85	/85	8:21:04	0000337	220.0	CORNEAL		LEFT	EYE		
5/10/	/85	7:46:58	0000337	216.0	CORNEAL			EYE	٠,	
//0/9	/85	8:00:50	0000337	222.0	CORNEAL	OPACITY		EYE	-	
7/03/	/85	7:32:34	0000337	233.0	CORNEAL			EYE	٠,	
8/05/	/85	8:11:30	0034567	236.0	CORNEAL	_	LEFT	EYE		
8/30/	/85	9:41:46	0000337	242.0	CORNEAL	_	LEFT	EYE	O,	
112/6	85	7:28:22	0000337	252.0	CORNEAL	_	LEFT	EYE		
10/25/	185	8:02:26	0072808	247.0	CORNEAL		LEFT	EYE	٠.	
11/22/	/85	8:03:46	0000337	242.0	CORNEAL		LEFT	EYE		
12/20/85	/85	8:38:46	0000337	245.0	CORNEAL		LEFT	EYE	SLIGHT	
1/11/86	98/	10:05:00	0067831		DEATH			! !		

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00290 Species: D Sex: FEMALE Group: CONTROLS

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ATIONS	LJan	
OBSERV	NORMAL NORMAL NORMAL NORMAL SONJUNCTIVITIS LEFT EYE SLIGHT NORMAL NORMAL NORMAL	MARKED
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	NORMAL NORMAL NORMAL CONJUNC NORMAL NORMAL NORMAL	NORMAL NORMAL PALLOR MARKED PALLOR MARKED
	246.0 248.0 259.0 269.0 282.0 286.0 287.0	303.0 263.0 249.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337	0000337 0072808 0000337 0000337
TIME	8:47:42 8:25:16 8:25:16 8:19:06 7:47:46 7:33:18 8:11:58	7:28:38 8:03:20 8:04:10 12:44:36
DATE	2/15/85 3/15/85 4/12/85 4/18/85 5/10/85 6/07/85 8/02/85	9/27/85 10/25/85 11/22/85 11/26/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANJ-ACRYLATE (IBC) IN MAL: AND FEMALE RATS.

PAGE 23 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00291 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

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	CONJUNCTIVITIS LEFT			SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS						NTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, EUTHANIZED
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	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	BOTH	ASS V
	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	CORNEAL OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	CORNEAL OPACITY	OMINAL M
CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	INTRAABD
242.0	246.0	259.0	272.0		276.0	276.0		280.0	286.0	294.0	304.0	305.0	311.0	310.0	299.0	
0000337	0000337	0000337	0000337	0000337	0000337	00000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567	
8:48:02	8:25:44	8:22:16	7:48:20	7:10:06	8:01:40	7:33:58	8:57:14	8:12:14	9:42:54	7:29:40	8:03:54	8:05:22	8:39:04	8:11:34	8:00:06	
2/15/85	3/15/85	4/12/85	5/10/85	5/29/85	6/07/85	7/03/85	7/10/85	8/02/85	8/30/85	9/27/85	10/25/85	11/22/85	12/20/85	1/11/86	2/01/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRY:ATE ACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84000292 Species: D Sex: FEMALE Group: 10 UL/ANM

CLINICAL OBSERVATIONS

(GRAMS)

OPERATOR

TIME

DATE

WEIGHT

IRIS ABNORMALITY (TEAR IN DORSAL ASPECT) LEFT EYE MODERATE, CORNEAL OPACITY ENLARGED GLOBE LEFT EYE, OPAQUE LENS LEFT EYE MARKED, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, ENLARGED GLOBE LEFT EYE, IRIS ABNORMALITY [IRIS TEAR DORSAL ASPECT] LEFT EYE MODERATE, IRIS ABNORMALITY (TEAR IN DORSAL ASPECT) SLIGHT IRIS ABNORMALITY [TEAR IN DORSAL ASPECT] RIGHT EYE SLIGHT IRIS ABNORMALITY [TEAR IN DORSAL ASPECT] LEFT EYE SLIGHT, IRIS ABNORMALITY [TEAR IN DORSAL ASPECT] LEFT EYE SLIGHT, LEFT EYE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL IRIS ABNORMALITY (TEAR LEFT EYE) SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, ENLARGED LEFT EYE, OPAQUE LENS LEFT EYE MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL IRIS ABNORMALITY (TEAR IN DORSAL ASPECT) SLIGHT IRIS ABNORMALITY (TEAR IN DORSAL ASPECT) SLIGHT IRIS ABNORMALITY (TEAR IN DORSAL ASPECT) IRIS ABNORMALITY (TEAR) LEFT EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT ENLARGED GLOBE LEFT EYE MARKED ENLARGED GLOBE LEFT EYE MARKED BOTH EYE SLIGHT 247.0 255.0 256.0 274.0 234.0 243.0 259.0 265.0 281.0 281.0 260.0 237.0 255.0 277.0 0000337 0000337 0000337 0000337 0084799 0000337 0034567 0000337 0084799 0084799 0000337 0000337 0084799 0034567 7:34:38 8:12:38 8:22:50 8:03:28 8:48:54 8:27:44 7:48:44 8:02:04 9:43:28 7:30:10 8:04:28 8:05:44 8:39:22 8:11:52 2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/27/85 10/25/85 11/22/85 12/20/85 1/11/186 2/07/86

OPAQUE LENS LEFT EYE MARKED, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYL
START DATE: 1/28/85

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 25 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal In: 84D00293 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/15/85	8:51:24	0000337	208.0	NORMAL	
3/15/85	7:40:36	0000337	213.0	NORMAL CONJUNCTIVITIS RIGHT EYE :	EYE SLIGHT
4/09/85	9:08:10	0000337		NORMAL	
4/12/85	8:24:24	0000337	218.0	NORMAL	
5/10/85	7:50:06	0000337	213.0	NORMAL	
6/01/85	8:03:08	0000337	219.0	NORMAL	
7/03/85	7:36:52	0000337	212.0	NORMAL	
8/02/85	8:15:24	0034567	223.0	NORMAL	
8/30/85	9:45:34	0000337	225.0	NORMAL	
9/27/85	7:32:02	0000337	236.0	NORMAL	
10/25/85	8:13:10	0072808	245.0	NORMAL	
11/22/85	8:08:58	0000337	243.0	NORMAL	
12/20/85	8:40:50	0000337	242.0	NORMAL	
1/11/86	8:13:32	0000337	243.0	NORMAL	
2/07/86	8:06:32	0034567	224.0	NORMAL / EUTHANIZED	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE A
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00294 Species: D Sex: FEMALE Group: 10 UL/ANM

CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, EYE SLIGHT, STAIN CLEAR PERIANAL SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, EUTHANIZED INTRAABDNOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABBOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT, SLIGHT EYE BOTH BOTH BOTH BOTH CLINICAL OBSERVATIONS OPACITY OPACITY OPACITY OPACITY OPACITY CORNEAL CORNEAL CORNEAL CORNEAL (GRAMS) 239.0 245.0 249.0 252.0 250.0 267.0 266.0 277.0 277.0 275.0 272.0 266.0 247.0 WEIGHT OPERATOR 0000337 0000337 0072808 0084799 0000337 0000337 0002920 0000337 0034567 0000337 0000337 0000337 0000337 0000337 0034567 8:08:20 8:13:46 7:50:24 9:28:58 8:13:32 8:09:24 8:41:12 8:52:14 9:46:12 7:32:24 8:03:58 :37:28 8:15:54 8:32:04 9:07:04 8:25:34 TIME 3/15/85 4/09/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/13/85 9/27/85 0/25/85 11/22/85 12/20/85 1/11/86 2/01/86 DATE

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: I

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 27
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00296

CLINICAL OBSERVATIONS WEIGHT (GRAMS) OPERATOR TIME

STAIN YELLOW PERIANAL SLIGHT STAIN CLEAR PERIANAL SLIGHT, STAIN BROWN NOSE SLIGHT STAIN BROWN NOSE SLIGHT, STAIN YELLOW PERIANAL MARKED, INTRAABDOMINAL MASS LARGE 212.0 211.0 0000337 0000337 0000337 0084799 8:52:44 8:04:04 7:55:20 8:32:20 2/15/85 2/19/85 3/01/85 3/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00297 Species: D Sex: FEMALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

SLIGHT, EUTHANIZED SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT EYE EYE EYE EYE EYE EYE EYE EYE EYE EYE EYE RIGHT OPACITY | OPACITY | OPACITY | OPACITY | OPACITY | OPACITY | OPACITY OPACIT OPACITY OPACITY OPACITY CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL 261.0 278.0 278.0 285.0 289.0 304.0 300.0 308.0 308.0 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 8:26:12 7:50:48 8:04:22 8:16:20 9:48:46 7:33:58 8:14:32 8:10:12 8:42:00 8:14:56 8:53:04 8:44:34 4/12/85 5/10/85 6/07/85 7/03/85 8/10/85 9/27/85 10/25/85 11/22/85 11/22/85 2/15/85 3/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 29
DATE: 6/09/87
TIME: 14:40:13
EDSO17 V4M11

ANIMAL HISTORY

Animal ID: 84D00298 Species: D Sex: FEMALE Group: CONTROLS

EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT
EYE SLIGHT
EYE SLIGHT
EYE SLIGHT
EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, STAIN BROWN EYE SLIGHT
EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE
EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, EUTHANIZED SLIGHT SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT SLIGHT SLIGHT, STAIN CLEAR PERIANAL SLIGHT SLIGHT EYE SLIGHT SLIGHT EYE SLIGHT EYE SLIGHT EYE EYE EYE LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT LEFT CLINICAL OBSERVATIONS CORNEAL OPACITY L
CORNEAL OPACITY L
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CORNEAL OPACITY L CORNEAL OPACITY I CORNEAL OPACITY I CORNEAL OPACITY I CORNEAL OPACITY I CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY (GRAMS) 251.0 252.0 257.0 294.0 289.0 286.0 288.0 279.0 249.0 262.0 260.0 291.0 WEIGHT 263.0 OPERATOR 0034567 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 0000337 0000337 0000337 0000337 0000337 0000337 8:42:14 8:15:16 8:12:04 8:04:407:39:12 8:17:46 9:49:06 8:15:16 8:10:32 8:53:22 8:05:52 8:44:52 7:51:14 7:16:50 7:34:30 8:26:58 TIME 10/25/85 11/22/85 12/20/85 1/17/86 2/07/86 2/15/85 2/19/85 3/15/85 4/12/85 5/10/85 5/29/85 6/07/85 8/02/85 8/30/85 9/27/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00299 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

													EYE MODERATE, STAIN BROWN NOSE MODERATE, EMACIATED
NORMAL	NORMAL	NORMAL	NORMAL	IRRITABLE MODERATE	STAIN BROWN NOSE SLIGHT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	CONJUNCTIVITIS RIGHT EYE N MODERATE, EUTHANIZED
224.0	232.0	238.0	251.0	238.0	241.0	255.0	259.0	264.0	262.0	255.0	258.0	249.0	210.0
0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
8:53:42	8:46:54	8:27:54	7:51:46	8:05:04	7:40:28	8:18:24	9:49:26	7:35:00	8:15:46	8:11:06	8:42:34	8:15:54	8:13:34
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/11/86	2/07/86

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

PAGE 31 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00300 Species: D Sex: FEMALE Group: 10 UL/ANM

H EYE SLICHT H EYE SLIGHT H EYE SLIGHT H EYE SLIGHT, EUTHANIZED CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
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CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT CLINICAL OBSERVATIONS CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B WEIGHT (GRAMS) 213.0 212.0 228.0 225.0 231.0 231.0 227.0 241.0 255.0 258.0 261.0 259.0 248.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0034567 0034567 0000337 0000337 0000337 0000337 0072808 8:18:56 9:49:52 7:35:20 8:16:12 8:11:22 8:42:48 8:42:48 8:47:12 8:28:38 7:52:04 8:06:44 8:54:00 7:41:58 TIME 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/30/85 9/27/85 11/22/85 11/20/85 1/17/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Species: D Sex: FEMALE Group: CONTROLS Animal ID: 84D00301

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

								KE
DRNEAL OPACITY			* <u></u>	و ا	2	,		MALOCCUSION MAR
IGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED, CO	SET EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT,	THE EXECUTE CORNEL DEACHTY BEEF STIGHT,	NOTH EYE SLIGHT, PROLABSED LENS RIGHT EYE SLIGHT	LEE MAKKED, MALOCCIUSION MODERATE NOTH EYE SLIGHT, PROLAPSED LENS RIGHT EYE SLIGHT	ELE MARKED, MALOCCLUSION MODERATE OUTH EYE SLIGHT, PROLAPSED LENS RIGHT EYE SLIGHT	LATE MARKED, MALOCCIOSION MODERATE OUTH EYE SLIGHT, PROLAPSED LENS RIGHT EYE SLIGHT	EIE SLIGHT, MALOCCLUSION MODERATE	FROLAFSED LENS RIGHT EYE MARKED, OPAQUE LENS RIGHT EYE MARKED, MALOCCUSION MARKE * No observations recorded.
PROLAPSED LENS RI BOTH EYE SLIGHT	CONJUNCTIVITIS LE	CONJUNCTIVITIS LE	CORNEAL OPACITY E	CORNEAL OPACITY B	CORNEAL OPACITY B	CORNEAL OPACITY B	CORNEAL OPACITY B	* No observations recorded.
199.0		195.0	205.0	205.0		202.0	178.0	
0000337	0084799	00000337	0084799	0000337	0067831	0000337	00000337	0034567
8:54:20	9:48:30	8:47:30	8:29:16	7:52:36	7:22:46	8:07:20	7:42:38	8/01/85 10:44:28 0034567
2/15/85	3/01/85	3/15/85	4/12/85	5/10/85	5/20/85	9/01/82	7/03/85	8/01/85
	8:54:20 0000337 199.0	8:54:20 0000337 199.0 9:48:30 0084799	8:54:20 0000337 199.0 9:48:30 0084799 8:47:30 0000337 195.0	8:54:20 0000337 199.0 9:48:30 0084799 8:47:30 0000337 195.0 8:29:16 0084799 205.0	8:54:20 0000337 199.0 9:48:30 0084799 8:47:30 0000337 195.0 8:29:16 0084799 205.0 7:52:36 0000337 205.0	8:54:20 0000337 199.0 9:48:30 0084799 8:47:30 0000337 195.0 8:29:16 0084799 205.0 7:52:36 0000337 205.0	8:54:20 0000337 199.0 9:48:30 0084799 8:47:30 0000337 195.0 8:29:16 0084799 205.0 7:52:36 0000337 205.0 7:22:46 0067831 8:07:20 0000337 202.0	8:54:20 0000337 199.0 9:48:30 0084799 8:47:30 0000337 195.0 8:29:16 0084799 205.0 7:52:36 0000337 205.0 7:22:46 0067831 8:07:20 0000337 202.0 7:42:38 0000337 178.0

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 33 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00302 Species: D Sex: FEMALE Group: 100 UL/ANM

SNO	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT	IIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT, ROUGH COAT MODERATE	CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY RIGHT EYE SLIGHT	CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY RIGHT EYE SLIGHT	LEFI EIE MODERAIE, CORNEAL OFACIII RIGHI EIE SLIGHI BOTH EYE MODERAIE, CORNEAL OPACIIY RIGHT EYE SLIGHT	EYE MODERATE, CORNEAL OPACITY RIGHT EYE	RIGHT EYE	CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT,	SUBCUTANEOUS MASS MIDDLE BACK SIZE SMALL	CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT,	SUBCUTANEOUS MASS MIDDLE BACK SIZE SMALL	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE, SUBCITEMPONS MASS MIDDLE OF BACK SIZE SMALL	CONFEST OPECITY RIGHT FVE STIRCTION MASS MIDDLE OF BACK SIZE MEDITUM	MASS MIDDLE OF BACK SIZE	MASS DORSAL SIZE MEDIUM	CORNEAL OPACITY RIGHT EYE SLIGHT, SUBCUTANEOUS MASS DORSAL SIZE MEDIUM, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CORNEAL OPACITY RIGHT EXE SLIGHT, SUBCUTANEOUS MASS DORSAL SIZE LARGE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, SPLENIC MASS SIZE LARGE	CORNEAL OPACITY RIGHT EYE SLIGHT, INTRABBOMINAL MASS VENTRAL TO LIVER SIZE LARGE,SPLENIC MASS SIZE LARGE, CUTANEOUS MASS DORSAL LOWER RIGHT QUADRANT,EUTHANIZED
OBSERVAT]	CORNEAL OPACITY RIGHT CORNEAL OPACITY RIGHT SLIGHT	OPACITY RIGHT	OPACITY FOUGH COAT	IVITIS BC	IVITIS BO			IVITIS BO	IVITIS BO	EOUS MASS	IVITIS BO	EOUS MASS	OPACITY R	OPACITY B	OPACITY R	OPACITY R	OPACITY R	OPACITY R	OPACITY ROMINAL MASS DC
CLINICAL OBSERVATIONS	CORNEAL CORNEAL SLIGHT		CORNEAL SLIGHT, R	CONJUNCT	CONJUNCT	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCT	CONJUNCT	SUBCUTAN	CONJUNCT	SUBCUTAN	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL OPACITY INTRABBOMINAL CUTANEOUS MASS
WEIGHT (GRAMS)	239.0	247.0			266.0	7.607	276.0	273.0	288.0		290.0		299.0	301.0	295.0	298.0		290.0	229.0
OPERATOR	0000337	0000337	0084799	0000337	0000337	0000337	0000337	0000337	0084799		0000337		0000337	0072808	0084799	0000337	0000337	0000337	0000337
TIME	8:55:56 8:09:00	8:50:12	7:45:40	9:14:00	8:34:28	7:22:06	8:12:44	7:46:24	8:19:54		9:50:24		7:35:46	8.16.34	8:11:40	8:43:10	9:23:02	8:16:56	14:52:50
DATE	2/15/85 2/19/85	3/15/85	3/19/85	4/09/85	4/12/85	5/10/63	6/07/85	7/03/85	8/02/85		8/30/85		9/27/85	10/25/85	11/22/85	12/20/85	1/02/86	1/11/86	2/03/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00303 Species: D Sex: FEMALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/08/85	8:45:02	0000337		CONJUNCTIVITIS RIGHT EYE	RIGHT	EYE	SLIGHT	
2/15/85	8:56:22	0000337	235.0	NORMAL				
3/15/85	9:18:28	0000337	240.0	CTIVITIS	RIGHT	EYE	SLIGHT	
4/12/85	8:35:24	0000337	251.0	CONJUNCTIVITIS	RIGHT	EYE	SLIGHT	
5/10/85	7:59:30	0000337	251.0	CONJUNCTIVITIS		EYE	SLIGHT	
6/01/85	8:13:42	0000337	262.0	CONJUNCTIVITIS	RIGHT	EYE	SLIGHT	
7/03/85	7:47:06	0000337	266.0	CONJUNCTIVITIS	RIGHT	EYE	SLIGHT	
8/02/85	8:24:30	0034567	288.0	CONJUNCTIVITIS	RIGHT	EXE	SLIGHT	
8/30/85	9:51:50	0000337	292.0	NORMAL				
9/27/85	7:37:56	0000337	292.0	NORMAL				
10/25/85	8:19:06	0072808	295.0	NORMAL				
11/22/85	8:12:54	0000337	297.0	NORMAL				
12/20/85	8:44:20	0000337	307.0	NORMAL				
1/11/86	8:20:20	0000337	299.0	NORMAL				
2/01/86	8:17:58	0034567	289.0	NORMAL / EUTHANIZED	IZED			

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, EUTHANIZED

Appendix F (cont.): INDIVIDUAL ANIMAL HISTORIES

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

35 6/09/87

TIME: 14:40:13

V4M11

DATE: TIME: 1 EDS017

ANIMAL HISTORY

Animal ID: 84D00305 Species: D Sex: FEMALE Group: 100 UL/ANM

RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED
RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, STAIN YELLOW RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, STAIN CLEAR RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, STAIN CLEAR CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE
CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE
CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE
CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT
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CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTAL TO LIVER SIZE MEDIUM CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CLINICAL OBSERVATIONS CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY PERIANAL SLIGHT PERIANAL SLIGHT PERIANAL SLIGHT (GRAMS) 251.0 234.0 278.0 287.0 293.0 307.0 311.0 275.0 244.0 314.0 WE IGHT 309.0 318.0 305.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0002920 0000337 0072808 0000337 0084799 0034567 0000337 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0000337 8:56:52 8:12:10 8:19:30 9:15:26 9:20:16 9:16:26 8:19:20 8:44:56 8:36:10 7:47:36 12:36:34 8:13:14 7:59:48 7:24:14 8:14:08 8:25:12 9:52:22 9:35:14 7:38:14 TIME 4/12/85 10/16/85 2/19/85 2/26/85 3/15/85 5/10/85 5/29/85 6/07/85 7/03/85 8/02/85 9/13/85 9/27/85 10/25/85 11/22/85 12/20/85 1/11/186 2/01/86 2/15/85 8/30/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00306 Species: D Sex: FEMALE Group: CONTROLS

CLINICAL OBSERVATIONS OPACITY CORNEAL CORNEAL (GRAMS) WEIGHT OPERATOR 0000337 11:12:38 8:47:06 TIME 2/08/82 2/01/85 DATE

SLIGHT
SLIGHT
SLIGHT
SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE
SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT SLIGHT, CONJUNCTIVITIS RICHT EYE MODERATE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE, SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT RIGHT EYE S RIGHT EYE S RIGHT EYE S RIGHT EYE S RIGHT EYE S RIGHT EYE S RIGHT EYE S RIGHT EYE S RIGHT EYE S EYE EYE EYE EYE RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT CORNEAL OPACITY R
CORNEAL OPACITY R
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CORNEAL OPACITY R
CORNEAL OPACITY R 259.0 237.0 283.0 2290.0 2296.0 2296.0 305.0 305.0 305.0 298.0 259.0 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 8:14:08 8:45:50 8:21:48 8:22:30 8:37:02 7:40:06 8:20:40 8:57:18 8:25:46 9:53:40 8:13:44 9:17:02 9:20:42 8:14:32 7:48:24 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 9/27/85 11/22/85 2/15/85 2/19/85 2/26/85 8/30/85

EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 37
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00307 Species: D Sex: FEMALE Group: CONTROLS

(0.)	CONJUNCTIVITIS LEFT EYE MODERATE NORMAL SELLOW PERIANAL SLIGHT	NOMMAL NORWAL NORWAL NORWAL NORWAL	EYE SLIGHT EYE MARKED EYE SLIGHT	
ATIONS	LEFT ERIAN	LEFT	LEFT LEFT LEFT	
CLINICAL OBSERVATIONS	CONJUNCTIVITIS LEFT EYE MODE NORMAL YELLOW PERIANAL SLIGHT	L C NCTIVITIS L L	NORMAL NORMAL CONJUNCTIVITIS LEFT CONJUNCTIVITIS LEFT CONJUNCTIVITIS LEFT NORMAL NORMAL NORMAL NORMAL NORMAL	
	CONJUN	NORMAL NORMAL CONJUN NORMAL	NORMAL NORMAL CONJUN CONJUN NORMAL NORMAL NORMAL	
WEIGHT (GRAMS)	206.0	215.0 221.0 221.0 226.0	226.0 242.0 251.0 251.0 254.0 267.0 266.0 264.0	
OPERATOR	0000337	0000337 0000337 0000337 0000337	0000337 0034567 0000337 0000337 0000337 0000337	
TIME	8:57:46 8:15:24 9:18:00	9:21:10 8:37:42 8:00:38 7:25:50	7:48:56 8:26:10 9:54:04 9:36:38 7:40:26 8:21:06 8:14:28 8:46:22 8:22:10	
DATE	2/15/85 2/19/85 2/26/85	3/15/85 4/12/85 5/10/85 5/29/85 6/07/85	7/03/85 8/02/85 8/30/85 9/13/85 10/25/85 11/22/85 11/17/86	

DATE:

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYAL ACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00308

WEIGHT

CONJUNCTIVITIS RIGHT EYE MARKED, CORNEAL OPACITY BOTH EYE SLIGHT, TACHYPNEA CORNEAL OPACITY BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY BOTH EYE SLIGHT, TACHYPNEA CONJUNCTIVITIS RIGHT EYE MARKED, CORNEAL OPACITY BOTH EYE SLIGHT CONJUNCTIVITIS RIGHT EYE MARKED, CORNEAL OPACITY BOTH EYE SLIGHT, SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT EXE EYE EYE EYE EXE EXE BOTH EYE BOTH F.YE BOTH EYE BOTH BOTH BOTH BOTH BOTH BOTH BOTH S BOTH EYE MARKED, CORNEAL OPACITY BG S BOTH EYE MARKED, CORNEAL OPACITY BG S BOTH EYE MARKED, CORNEAL OPACITY BG S BOTH EYE MARKED, CORNEAL OPACITY BG S BOTH EYE MARKED, CORNEAL OPACITY BG S BOTH EYE MARKED, CORNEAL OPACITY BG S BOTH EYE MARKED, CORNEAL OPACITY BG CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY EYE MARKED, CORNEAL OPACITY EYE MARKED, CORNEAL OPACITY MARKED, CORNEAL OPACITY CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY CONJUNCTIVITIS LEFT EYE MODERATE, EUTHANIZED EYE OPERATOR (GRAMS) CLINICAL OBSERVATIONS BOTH BOTH BOTH CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS SLIGHT SI,IGHT SLIGHT 240.0 252.0 267.0 263.0 258.0 270.0 275.0 275.0 283.0 284.0 281.0 285.0 270.0 230.0 00000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 0000337 0034567 0000337 0000337 0034567 0000337 0000337 8:14:46 8:46:42 8:22:30 8:24:34 9:21:54 8:16:22 8:27:20 9:54:36 8:21:38 8:48:38 8:58:14 9:18:54 8:38:20 8:01:08 3:15:20 7:49:28 :40:54 TIME 9/27/85 10/25/85 11/22/85 12/20/85 2/26/85 3/15/85 6/07/8° 7/03/85 8/02/85 8/30/85 2/01/86 1/11/86 2/15/85 2/19/85 4/12/85 5/10/85 2/08/85

INDIVIDUAL ANIMAL HISTORIES (cont.): بعأ Appendix

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 39
DATE: 6/09/87
TIME: 14:40:13
EDSO17 V4M11

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00309

WEIGHT

NORMAL CONJUNCTIVITIS BOTH EYE SLIGHT, STAIN BROWN NOSE SLIGHT NORMAL NORMAL CONJUNCTIVITIS RIGHT EYE SLIGHT OPERATOR (GRAMS) CLINICAL OBSELVATIONS NORMAL NORMAL / EUTHANIZED NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL 235.0 248.0 248.0 268.0 279.0 295.0 289.0 267.0 201.0 229.0 229.0 0000337 0000337 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0072808 0000337 0000337 0000337 0000337 0000337 8:59:18 9:22:22 8:39:46 8:39:02 8:01:32 7:40:33 7:49:58 8:27:46 9:55:14 7:41:16 8:22:20 8:22:20 8:23:02 TIME 2/15/85 3/15/85 4/09/85 4/12/85 5/29/85 6/07/85 1/03/85 8/02/85 10/25/85 11/220/85 1/11/86 DATE

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84000310 Species: D Sex: FEMALE Group: 10 UL/ANM

CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, MODERATE, EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, MARKED CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, MARKED MARKED MARKED MARKED MARKED INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, EUTHANIZED EXE EYE EYE EYE EYE EYE EXE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE BOTH CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH SLIGHT, CONJUNCTIVITIS BOTH BOTH BOTH CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH BOTH SLIGHT, CONJUNCTIVITIS BOTH INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL SLIGHT, CONJUNCTIVITIS SLIGHT, CONJUNCTIVITIS EYE SLIGHT, CONJUNCTIVITIS EYE SLIGHT, CONJUNCT VITIS LEFT EYE SLIGHT, CONJUNCTIVITIS EYE LEFT LEFT LEFT LEFT LEFT CLINICAL OBSERVATIONS OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL CORNEAL WEIGHT (GRAMS) 250.0 259.0 278.0 274.0 289.0 307.0 290.0 314.0 255.0 306.0 299.0 286.0 OPERATOR 0034567 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0072808 0000337 0000337 0000337 0000337 0000337 9:55:28 8:15:20 8:47:16 8:23:20 8:27:48 8:59:36 8:01:56 7:50:26 8:28:08 7:41:38 8:22:38 8:39:52 8:16:12 TIME 11/22/85 12/20/85 1/11/86 2/01/86 10/25/85 3/15/85 4/12/85 5/10/85 6/01/85 7/03/85 8/02/85 8/30/85 9/21/85 2/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLA'START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 41
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00311 Species: D Sex: FEMALE Group: 100 UL/ANM

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TIME	11:15:34 9:01:08 9:21:16 7:59:38 9:23:10 9:40:26 8:02:22 8:16:34 7:50:58 8:28:30 9:57:16 7:44:16 8:28:30
DATE	2/01/85 2/15/85 2/26/85 3/01/85 3/15/85 4/12/85 5/10/85 6/07/85 1/03/85 11/22/85 11/22/85 11/17/86 2/10/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IB START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00312 Species: D Sex: FEMALE Group: 100 UL/ANM

CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, SUBCUTANEOUS MASS LATERAL RIGHT SIDE SIZE SMALL CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, SUBCUTANEOUS MASS RIGHT SIDE ABDOMEN SIZE LARGE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED MARKED EYE MARKED MARKED MARKED EYE EYE EYE EYE BOTH BOTH CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH SLIGHT, CONJUNCTIVITIS BOTH SUBCUTANEOUS MASS LATERAL TO RIGHT SIDE SIZE MEDIUM SUBCUTANEOUS MASS LATERAL RIGHT SIDE SIZE MEDIUM SUBCUTANEOUS MASS LATERAL RIGHT SIDE SIZE SMALL SUBCUTANEOUS MASS RIGHT SIDE ABDOMEN SIZE LARGE SLIGHT, CONJUNCTIVITIS SLIGHT, CONJUNCTIVITIS EYE BOTH BOTH BOTH CLINICAL OBSERVATIONS CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY OPACITY CORNEAL OPACITY CORNEAL SLIGHT (GRAMS) 256.0 261.0 260.0 254.0 235.0 254.0 269.0 271.0 284.0 273.0 281.0 284.0 272.0 WEIGHT 240.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0084799 0072808 0000337 0000337 0000337 0034567 0000337 0034567 9:00:30 8:02:48 8:16:56 7:51:308:29:24 8:24:56 7:38:20 9:57:40 8:00:42 8:42:10 7:21:18 7:44:38 8:24:02 8:16:28 8:48:22 9:23:34 TIME 2/15/85 2/26/85 3/01/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/04/85 9/27/85 10/25/85 11/22/85 12/20/85 1/17/86 2/10/86 DATE

SUBCUTANEOUS MASS RIGHT SIDE ABDOMEN SIZE LARGE, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: :/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 43
DATE: 6/09/87
TIME: 14:40:13
EDSO17 V4M11

ANIMAL HISTORY

Animal ID: 84D00313 Species: D Sex: FEMALE Group: CONTROLS

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F EYE SLIGHT

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F EYE MODERATE

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STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00314 Species: D Sex: FEMALE Group: 10 UL/ANM

CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE MARKED, CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS LEFT EYE MARKED INTRABBDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRABBDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRABBDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, EUTHANIZED MASS VENTRAL TO LIVER SIZE SMALL VENTRAL TO LIVER SIZE SMALL SMALL VENTRAL TO LIVER SIZE VENTRAL TO LIVER SIZE EYE MODERATE, LEFT EYE MARKED, LEFT EYE MARKED, LEFT EYE MARKED, LEFT EYE SLIGHT CLINICAL OBSERVATIONS MASS MASS INTRAABDOMINAL MASS CONJUNCTIVITIS INTRAABDOMINAL CONJUNCTIVITIS CONJUNCTIVITIS INTRABBOOMINAL CONJUNCTIVITIS INTRABBOOMINAL CONJUNCTIVITIS NOSE SLIGHT (GRAMS) 227.0 229.0 237.0 249.0 253.0 255.0 265.0 271.0 279.0 278.0 278.0 276.0 256.0 WEIGHT 277.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 0000337 0000337 0034567 8:44:10 8:04:16 7:51:20 8:26:28 :53:06 7:46:44 8:51:08 8:52:58 8:17:50 8:30:36 9:58:32 9:01:50 8:18:04 9:01:12 9:24:34 TIME 1/17/86 2/10/86 4/12/85 5/10/85 5/29/85 11/22/85 12/20/85 8/30/85 9/27/85 .0/25/85 2/08/85 2/15/85 3/15/85 6/01/85 7/03/85 8/02/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

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DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00315 Species: D Sex: FEMALE Group: 100 UL/ANM

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

CONJUNCTIVITIS RIGHT EYE MODERATE, CONJUNCTIVITIS LEFT EYE SLIGHT	CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE	CONJUNCTIVITIS BOTH EYE MARKED	CONJUNCTIVITIS LEFT EYE MODERATE, STAIN YELLOW PERIANAL SLIGHT	CONJUNCTIVITIS LEFT EYE MODERATE	CONJUNCTIVITIS BOTH EYE MARKED	ONJUNCTIVITIS BOTH EYE SLIGHT	CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE SLIGHT	CONJUNCTIVITIS BOTH EYE MARKED	CONJUNCTIVITIS BOTH EYE MARKED	CONJUNCTIVITIS BOTH EYE MARKED	CONJUNCTIVITIS BOTH EYE MARKED	CONJUNCTIVITIS BOTH EYE MODERATE	CONJUNCTIVITIS BOTH EXE MODERATE	ONJUNCTIVITIS BOTH EYE MARKED	CONJUNCTIVITIS BOTH EYE MARKED, EUTHANIZED
241.0		238.0	•	254.0	265.0	273.0	266.0	278.0	287.0	294.0	290.0	289.0	293.0	299.0	274.0
0000337	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
9:01:32	8:21:54	9:25:10	9:44:46	8:45:12	8:04:48	8:18:32	7:53:42	8:31:08	9:59:52	7:47:46	9:03:16	8:18:52	8:52:06	8:27:24	7:45:36
2/15/85	2/19/85	3/15/85	4/09/85	4/12/85	5/10/85	6/01/85	7/03/85	8/07/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/11/86	2/10/86

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-	ATE ACRYLATE (IBC) IN MALE AND FEMALE RATS.	
	ISOBUTYL 2-CYANOACRYLATE	
	ISOBUTYL	1/28/85
STUDY: 0083009	COMPOUND:	START DATE:

ANIMAL HISTORY

Animal ID: 84D00316 Species: D Sex: FEMALE Group: 10 UL/ANM

	RIGHT EYE SLIGHT, MASS VENTRAL TO LIVER SIZE SMALL RIGHT EYE SLIGHT, RIGHT EYE SLIGHT, MASS VENTRAL TO LIVER SIZE SMALL, SPLENIC MASS SIZE LARGE MASS VENTRAL TO LIVER SIZE SMALL, SPLENIC MASS SIZE MEDIUM, MASS VENTRAL TO LIVER SIZE SMALL, SPLENIC MASS SIZE MEDIUM,	•
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	RIGHT EYE SLIGHT RIGHT EYE SLIGHT, MASS VENTRAL TO LIVER SIZE SMALL RIGHT EYE SLIGHT, MASS VENTRAL TO LIVER SIZE SWALL MASS VENTRAL TO LIVER SIZE SWALL MASS VENTRAL TO LIVER SIZE SWALL	
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WEIGHT (GRAMS)	258.0 263.0 276.0 274.0 274.0 281.0 286.0 290.0 290.0 290.0 292.0	
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337	
TIME	9:02:06 9:02:06 8:46:06 8:05:18 8:21:24 7:54:50 10:00:12 10:00:12 9:31:58 10:00:12 8:31:58 10:00:12 8:31:58	
DATE	2/15/85 3/15/85 3/15/85 4/12/85 5/10/85 6/07/85 1/03/85 8/30/85 9/27/85 11/22/85 11/22/85 11/1/26 11/1/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

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DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00317 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/08/85	8:54:48	0000337		STAIN YELLOW PERIANAL SLIGHT
2/15/85	9:02:24	0000337	231.0	VAGINAL DISCHARGE BLOODY SLIGHT
2/19/85	8:23:14	0000337		STAIN YELLOW PERIANAL MODERATE
3/15/85	9:25:56	0000337	238.0	NORMAL
4/12/85	8:46:48	0000337	242.0	NORMAL
5/10/85	8:05:36	0000337	252.0	SCAB RIGHT EAR SLIGHT
5/29/85	7:53:38	0000337		NORMAL
6/07/85	8:19:46	0000337	251.0	NORMAL
7/03/85	7:55:18	0000337	251.0	NORMAL
8/02/85	8:32:18	0034567	263.0	NORMAL
8/30/85	10:00:26	0000337	267.0	NORMAL
9/21/85	7:48:32	0000337	271.0	NORMAL
10/25/85	9:04:36	0072808	269.0	NORMAL
11/22/85	8:19:38	0000337	275.0	NORMAL
12/20/85	8:53:50	0000337	284.0	NORMAL
1/11/86	8:29:02	0000337	266.0	NORMAL
2/10/86	7:49:50	0034567	253.0	NORMAL / EUTHANIZED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTY', 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Group: 10 UL/ANM FEMALE Sex: Species: D Animal ID: 84D00319

CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT
CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT, CONJUNCTIVITIS
RIGHT EYE SLIGHT
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STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

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DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00320 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

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0000337	0000337	0000337	0000337	0000337	0000337	034567	0000337	0000337	7660000	0072808		0000337	
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15/85	15/85	12/8	5/10/85	07/8	03/85	02/8	30/8	04/85	27/8	25/85		11/15/85	
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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: CONTROLS Sex: FEMALE Species: D Animal ID: 84D00321

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

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3/15/85	9:27:32	0000337	256.0	CONJUNCTIVITIS RIGHT EYE MODERATE
4/12/85	8:49:04	0000337	263.0	EXE
5/10/85	8:09:20	0000337	281.0	RIGHT EYE
6/01/85	8:23:16	0000337	289.0	RIGHT EYE
7/03/85	7:57:22	0000337	298.0	RIGHT EYE
8/02/85	8:33:50	0034567	305.0	EYE
8/30/82	10:01:36	0000337	305.0	RIGHT EYE
9/27/85	7:49:44	0000337	321.0	RIGHT EYE
10/25/85	9:07:02	0072808	327.0	RIGHT EYE
11/22/85	8:20:12	0000337	323.0	CONJUNCTIVITIS RIGHT EYE SLIGHT
12/20/85	8:54:26	0000337	333.0	RIGHT EYE
1/11/186	8:29:44	0000337	330.0	EYE SLIGHT
2/10/86	7:52:00	0034567	327.0	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 51 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00322 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

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				ME			LARGE
				SIZE			SIZE L
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!	RIGHT						RIGHT E
	RIC						
	CORNEAL OPACITY	OPACITY OPACITY	OPACITY OPACITY	OPACITY OPACITY	OPACITY OPACITY	OPACITY OPACITY	OPACITY
	ORNEAL	ORNEAL		CORNEAL	CORNEAL	CORNEAL	CORNEAL
	88	888	88	88	88	88	0 2
	220.0	218.0	228.0 231.0	233.0	246.0 264.0	261.0	268.0
	0000337	0000337	0000337	0000337	0000337	0072808 0002920	0000337
	26	46	36	58 14	58 10	46	30
	9:06:	9:28:20	8:09: 8:23:	7:57:	10:01: 7:50:	9:08: 8:37:	8:20: 16:24:
	2/15/85	3/15/85	5/10/85 5/07/85	7/03/85 1/02/85	1/30/85 1/27/85)/25/85 /29/85	1/22/85
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CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Animal ID: 84D00323 Species: D Sex: FEMALE Group: 10 UL/ANM

CLINICAL OBSERVATIONS

OPERATOR (GRAMS)

TIM

WEIGHT

MARKED, TACHYPNEA CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, MARKED, MARKED, MARKED MAKE SD. MARKED SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED INTRAADOMINAL MASS VENTRAL TO LIVER SIZE SMALL, EUTHANIZED CCANEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE EYE EY≟ EYE EYE EYE EYE EXE BOTH EYE BOTH EYE BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS INTRAABDOMINAL MASS VENTRAL TO LIVER S/ZE SMALL CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNTIVITIS CORNEAT, OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY RIGHT EXE SLIGHT, CONJUNCTIVITIES INTRAABDOMINAL MASS VENTRAL TO LIVER SIZ, SMALL INTRAABDOMINAL MASS VENTRAL TO LIVIR SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTPAR BOOMINAL MASS VENTRAL TO LIVER SIZE SMILL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY RIGHT EYE RIGHT EYE CORNEAL OPACITY OPACITY CORNEAL SLIGHT 208.0 214.0 222.0 225.0 275.0 253.0 265.0 273.0 275.0 284.0 267.0 231.0 240.0 239.0 217.0 0072808 0000337 0000337 2034567 0000337 0000337 0000337 0000337 7660000 0000337 0000337 0034567 7660000 0000337 0000337 7660000 0000337 9:03:16 8:09:58 7:53:18 8.30:44 8:24:04 8:00:40 8:17:36 8:36:10 10:02:24 7 50:28 9:09:04 8:21:38 8:55:02 9:28:48 9:50:16 1:57:40 9:06:44 2/10/86 8/30/65 0/25/85 11/22/85 1/11/186 6/01/85 7/03/85 8/02/85 9/11/85 12/20/85 2/15/85 3/15/85 4/09/85 4/12/85 5/10/85 5/29/85 7/03/85

STUDY: 0083009		CARCINGENICITY BIOASSAY OF ISOBU
COMPOUND:	ISOBUTYL 2-CYANOACRYLATE	ACRYLATE (IBC) IN MALE AND FEM
START DATE:	1/28/85	

BIOASSAY OF ISOBUTYL 2-CYANO-I) IN MALE AND FEMALE RATS. ANIMAL HISTORY

PAGE 53 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

CONTROLS
Group:
FEMALE
Sex:
Species: D
84D00324
10:
Animal

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	WEIGHT (GRAMS) CLINICAL OBSERVATIONS
2/15/85	9:07:04	0000337	219.0	CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT
3/15/85	9:29:20	0000337	223.0	CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT
4/09/85	9:51:06	0000337		CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW PERTANAL, SLIGHT
4/12/85	9:04:06	0000337	230.0	CONJUNCTIVITIES BOTH EXE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW BEDIAMAR SLIGHT
4/18/85	8:26:56	0000337		CONTROLL STATES LEFT EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT, STAIN CLEAR PERIANAL SLIGHT, STAIN CLEAR
5/02/85	7:07:04	0000337		CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT, STAIN CLEAR PERIANAL SLIGHT
5/10/85	8:10:36	0000337	239.0	CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT
6/07/85	8:25:34	0000337	245.0	CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY LEFT EYE SLIGHT
7/03/85	8:02:40	0084799	253.0	LEFT EXE
8/02/85	8:37:48	0034567	260.0	
8/30/85	10:03:20	0000337	255.0	CORNEAL OPACITY LEFT EYE SLIGHT
9/27/85	7:51:26	0000337	262.0	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT
10/25/85	9:11:10	0072808	265.0	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
11/22/85	8:22:46	0000337	260.0	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE
12/20/85	8:55:46	0000337	267.0	
1/13/86	10:04:34	0084799		TIVITIS BOTH EYE
				YELLOW PERIANAL SLIGHT, EMACIATED MARKED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00325 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

ONE OF THE OPERATOR (GRAMS) CLINICAL OBSERVATIONS

CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE HARKED CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT NORMAL NORMAL
RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT RIGHT
CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MODERA CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE SLIGHT NORMAL / EUTHANIZED
CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC CONJUNC
236.0 264.0 248.0 253.0 259.0 270.0 279.0 287.0 285.0 286.0 288.0
0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
9:07:54 9:29:46 9:05:02 8:11:18 8:26:14 8:38:42 10:03:40 7:52:04 9:12:28 8:23:06 8:23:06 8:26:06
2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 1/03/85 8/02/85 9/27/85 0/25/85 1/17/86 2/10/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

E MAIS.

PAGE 55 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00326 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL NORMAL NORMAL NORMAL NORMAL PROSTRATE, INACTIVE MARKED, TREMORS MODERATE, HYPOTONIA MARKED MODERATE, STAIN YELLOW PERIANAL MARKED
WE IGHT (GRAMS)	214.0 221.0 201.0 197.0 206.0
OPERATOR	0000337 0000337 0000337 0000337 0000337
TIME	9:08:24 9:30:06 9:06:08 8:11:40 8:26:36
DATE	2/15/85 3/15/85 4/12/85 5/10/85 6/07/85

HISTORIES INDIVIDUAL ANIMAL (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00327

CLINICAL OBSERVATIONS WEIGHT (GRAMS) OPERATOR TIME DATE

CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT, STAIN CLEAR PERIANAL SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT
CORNEAL OPACITY BOTH EYE SLIGHT 235.0 244.0 259.0 270.0 273.0 273.0 279.0 00000337 00000337 00000337 00000337 00000337 00000337 9:08:46 9:33:00 9:30:34 9:07:18 8:12:44 8:04:28 9:35:48 10:04:26 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/30/85 2/15/85 2/26/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 57
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00328	: 84000328	Specie	Species: D	Sex: FEMALE		Group: 10 UL/ANM	UL/ANM
DATE	TIME	OPERATOR	WEIGHT (GRAMS)	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	OBSERVA	rions	
2/15/85	9:09:12	0000337	232.0	CORNEAL	OPACITY	RIGHT E	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
3/15/85	9:32:02	0000337	238.0	CORNEAL	CORNEAL OPACITY RIGHT	RIGHT E	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE
4/12/85	9:07:56	0000337	249.0	CORNEAL	CORNEAL OPACITY RIGHT	RIGHT E	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE
5/10/85	8:13:10	0000337	251.0	CORNEAL	CORNEAL OPACITY	RIGHT	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
6/01/85	8:28:58	0000337	268.0	CORNEAL	CORNEAL OPACITY	RIGHT	EXE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
7/03/85	8:05:10	0000337	270.0	CORNEAL	CORNEAL OPACITY RIGHT	RIGHT E	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE
8/02/85	9:36:08	0034567	270.0	CORNEAL	CORNEAL OPACITY	RIGHT	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE
8/30/85	10:07:30	0000337	274.0	CORNEAL	CORNEAL OPACITY	RIGHT	EXE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
9/21/85	7:52:32	0000337	272.0	CORNEAL	CORNEAL OPACITY	RIGHT	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
10/25/85	9:13:00	0072808	276.0	CORNEAL	CORNEAL OPACITY RIGHT		EXE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT
11/22/85	8:23:36	0000337	265.0	CORNEAL	CORNEAL OPACITY RIGHT	RIGHT E	EYE SLIGHT
12/20/85	8:56:24	0000337	249.0	CORNEAL	CORNEAL OPACITY RIGHT EYE	RIGHT E	IXE SLIGHT, PALLOR MODERATE, CONJUNCTIVITIS LEFT EYE
				SLIGHT			
1/03/86	1/03/86 10:19:14	0000337		CORNEAL	OPACITY	RIGHT E	CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, PALLOR

MARKED, EMACIATED MARKED

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Species: D Sex: FEMALE Group: CONTROLS Animal ID: 84D00329

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

														EUTHANIZED	
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	LAMACN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /	
(careta)	229.0	250.0	243.0	251.0	261.0	266.0	275.0	283.0	283.0	290.0	299.0	293.0	286.0	272.0	
	00000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567	
	9:09:32	9:32:34	9:08:32	8:13:36	8:29:20	8:05:56	9:37:06	10:08:02	7:52:54	9:13:26	8:24:14	8:57:12	8:32:56	7:57:56	
	2/15/85	3/15/85	4/12/85	5/10/85	6/07/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/11/86	2/10/86	

INDIVIDUAL ANIMAL HISTORIES (cont.): 1 Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 59
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Group: CONTROLS Sex: FEMALE Species: D Animal ID: 84D00330

CLINICAL OBSERVATIONS WEIGHT (GRAMS) OPERATOR TIME DATE

EMACIATED MARKED, PALLOR MARKED, STAIN YELLOW PERIANAL MODERATE, EUTHANIZED NORMAL NORMAL NORMAL 251.0 259.0 271.0 290.0 295.0 300.0 304.0 309.0 309.0 305.0 0034567 0000337 0000337 0072808 0000337 0000337 9:09:50 9:03:00 9:09:02 8:19:02 8:29:40 8:06:20 10:08:20 7:53:10 8:24:30 8:24:30 8:27:32 2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 10/25/85 11/22/85 11/22/85 11/22/85

NORMAL
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NORMAL
NORMAL
NORMAL
NORMAL

0000337 0000337 0000337 0000337 0000337

600

F/8/60/9

DATE:

TIME: 14:40:130 EDS017 V4M11 --284

Appendix F (cont.): INDIVIDUAL ANIMAL HISTORIES

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRY
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00331 Species: D Sex: FEMALE Group: CONTROLS

CLINICAL OBSERVATIONS

(GRAMS)

OPERATOR

TIME

DATE

WEIGHT

CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, PALLOR CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, STAIN CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, STAIN CORNEAL OPACITY RIGHT EYE MOPERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY LEFT EYE SLIGHT, LEFT EYE SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT CONJUNCTIVITIS BOTH EYE MODERATE, STAIN YELLOW PERIANAL SLIGHT EYE EYE EYE EYE EYE EYE LEFT LEFT LEFT LEFT LEFT LEFT LEFT CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY OPACITY OPACITY OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL YELLOW PERIANAL SLIGHT, DEHYDRATED MARKED CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT SPLENIC MASS SIZE MEDIUM YELLOW PERIANAL SLIGHT CORNEAL CORNEAL CORNEAL 254.0 255.0 266.0 272.0 275.0 255.0 223.0 233.0 231.0 195.0 262.0 223.0 241.0 241.0 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0072808 0000337 0000337 0000337 0000337 9:03:50 9:10:10 9:56:06 9:09:36 8:29:00 8:50:30 8:29:56 8:47:02 9:37:48 10:08:40 9:14:38 9:33:12 8:14:22 8:06:44 7:42:08 8:24:56 8:57:44 8:33:30 10:08:02 7:53:24 2/08/85 2/15/85 3/15/85 4/09/85 4/18/85 5/10/85 5/29/85 6/07/85 6/10/85 7/03/85 8/02/85 8/30/85 9/04/85 9/21/85 10/25/85 11/22/85 12/20/85 1/11/86 2/07/86

MARKED, SPLENIC MASS SIZE LARGE, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE A
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 61 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00332 Species: D Sex: FEMALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/08/85 9:04:50 0000337 CONJUNCTIVITIS BOTH EYE SL

2/08/85	9:04:50	0000337		CONJUNCTIVITIS	вотн	EYE	SLIGHT
2/15/85	9:10:42	0000337	226.0	CONJUNCTIVITIS	BOTH	EYE	SLIGHT
2/19/85	8:29:58	0000337		NORMAL			
2/26/85	9:35:40	0000337		CONJUNCTIVITIS	BOTH	EYE	SLIGHT
3/15/85	9:33:38	0000337	227.0	CONJUNCTIVITIS	LEFT	EYE	SLIGHT
4/12/85	9:10:18	0000337	239.0	CONJUNCTIVITIS	LEFT	EYE	SLIGHT
5/10/85	8:14:52	0000337	233.0	CONJUNCTIVITIS	LEFT 1	EYE	SLIGHT
6/07/85	8:31:52	0000337	247.0	CONJUNCTIVITIS		EYE	SLIGHT
7/03/85	8:08:00	0000337	259.0	CONJUNCTIVITIS		EYE	SLIGHT
8/02/85	9:38:34	0034567	262.0	CONJUNCTIVITIS	LEFT	EYE	MODERATE
8/30/85	10:09:12	0000337	265.0	CONJUNCTIVITIS		EYE	MODERATE
9/04/85	7:43:08	0000337		CONJUNCTIVITIS	LEFT	EYE	MODERATE
9/27/85	7:54:36	0000337	275.0	CONJUNCTIVITIS	LEFT 1	EYE	MODERATE
10/25/85	9:14:58	0072808	277.0	CONJUNCTIVITIS	LEFT 1	EYE	MODERATE
11/22/85	8:25:22	0000337	284.0	CONJUNCTIVITIS	LEFT	EYE	MARKED
12/20/85	8:58:08	0000337	294.0	CONJUNCTIVITIS	LEFT	EYE	SLIGHT
1/11/86	8:34:58	0000337	291.0	CONJUNCTIVITIS	LEFT	EYE	SLIGHT
2/10/86	7:59:14	0034567	287.0	NORMAL / EUTHANIZED	IZED		

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00334 Species: D Sex: FEMALE Group: CONTROLS

	NORMAL NORMAL CONJUNCTIVITIS RIGHT EYE SLIGHT NORMAL CONJUNCTIVITIS LEFT EYE SLIGHT
	EYI EYE
ATIONS	RIGHT
OBSERVA	NORMAL NORMAL CONJUNCTIVITIS RIGHT EYE SLIGH NORMAL CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT
WEIGHT PPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL NORMAL CONJUNC NORMAL CONJUNC
WEIGHT (GRAMS)	204.0 204.0 214.0 216.0
OPERATOR	0000337 0000337 0034567 0000337
TIME	9:11:08 9:34:08 7:59:22 9:10:58 8:15:26
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
DATE	2/15/85 3/15/85 3/19/85 4/12/85 5/10/85

															EYE MARKED, STAIN YELLOW PERIANAL MARKED, EMACIATED MARKED
															YELLOW PERI
		SLIGHT		SLIGHT	MARKED	MARKED	MARKED	MARKED	EYE MODERATE	MODERATE	MARKED	EYE MODERATE	MARKED	MARKED	MARKED, STAIN
		T EYE		EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE
		RIGH		LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	BOTH	BOTH	BOTH	вотн
NORMAL	NORMAL	CONJUNCTIVITIS RIGHT EYE SLIGHT	NORMAL	CONJUNCTIVITIS LEFT EYE	CONJUNCTIVITIS LEFT EYE	CONJUNCTIVITIS LEFT	CONJUNCTIVITIS	CONJUNCTIVITIS LEFT	CONJUNCTIVITIS LEFT	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	COMJUNCTIVITIS	CONJUNCTIVITIS
204.0	204.0		214.0	216.0		224.0	227.0	240.0	240.0		248.0	246.0		250.0	
0000337	0000337	0034567	0000337	0000337	0000337	00000337	00000337	0034567	0000337	0000337	0000337	0072808	0002920	0000337	0000337
9:11:08	9:34:08	7:59:22	9:10:58	8:15:26	8:52:00	8:32:58	8:08:40	9:39:04	10:09:40	7:44:16	7:55:02	9:15:18	8:49:54	8:25:40	12:37:22
2/15/85	3/15/85	3/19/85	4/12/85	5/10/85	5/29/85	6/07/85	7/03/85	8/02/85	8/30/85	9/04/85	9/27/85	10/25/85	10/29/85	11/22/85	12/03/85

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 63 DATE: 6/39/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00335 Species: D Sex: FEMALE Group: 10 UL/ANM

				SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT										SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE, EUTHANIZED	
	EYE SLIGHT	EYE	EYE S	EYE	EYE	EYE S	EYE S	EYE S	EYE S	EYE	EYE	EYE S	EYE SLIGHT	EYE	
PERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT	OPACITY LEFT	OPACITY	OPACITY	OPACITY	OPACITY	CORNEAL OPACITY LEFT			OPACITY	OPACITY	CORNEAL OPACITY LEFT	OPACITY	OPACITY	
CLINICAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL OPACITY	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	
(GRAMS)	225.0	227.0	230.0	242.0	267.0	262.0	264.0	272.0	286.0	290.0	287.0	289.0	296.0	278.0	
OPERATOR	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567	
TIME	9:11:26	9:34:32	9:11:40	8:15:48	8:33:24	8:09:08	9:39:38	10:10:10	7:55:34	9:16:04	8:25:54	8:58:34	8:35:16	8:00:22	
DATE	2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/82	9/27/85	10/25/85	11/22/85	12/20/85	1/17/86	2/10/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

STATE THE PROPERTY OF THE PROP

Animal ID: 84D00336 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

			THOU TO MY	ie Stieni									
			444	1									
			CONJUNCTIVITIS BOTH EYE SLIGHT, CORNEAL OPACITY IFFT EVE STIC	1 1112010 201									ANIZED
			IGHT, CORNE	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	SLIGHT	EYE SLIGHT FUTHANIZED
			EYE SL	FYES	EYE S	EYES	EYES	EYES	EYES	EYES	EYE S	FYES	EYES
			BOTH	/ LEFT	LEFT	LEFT	LEFT	LEFT	(LEFT	LEFT	LEFT	LEFT	LEFT
			IVITIS	PACITY	PACIT	PACITY	PACITY	PACITY	PACIT	PACIT	PACIT	PACITY	PACITY
NORMAL	NORMAL	NORMAL	CONJUNCT	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL OPACITY LEFT	CORNEAL OPACITY LEFT
226.0	224.0	235.0	239.0	236.0	244.0	254.0	264.0	268.0	270.0	277.0	284.0	275.0	267.0
0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
9:11:48	9:34:52	9:12:10	8:16:20	8:34:04	8:09:44	9:39:58	10:10:30	7:55:56	9:16:34	8:26:10	8:58:52	8:35:30	8:02:22
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/17/86	2/10/86

STUDY: 0083009 COMPOUND: ISOBUTYL 2-C' START DATE: 1/28/85

ISOBUTYL 2-CYANOACRYLATE ACRYL
1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 65 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4MII

Animal ID: 84D00337 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

				SLIGHT						SLIGHT	,			
				EYE						EYE	! !			
				LEFT						LEFT				IZED
				TIVITIS						rivitis				/ EUTHANIZED
NORMAL	NORMAL	NORMAL	NORMAL	CONJUNC	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	CONJUNC	NORMAL	NORMAL	NORMAL	NORMAL /
227.0	230.0	237.0	243.0	247.0	254.0	263.0	252.0	252.0	262.0		267.0	242.0	247.0	235.0
0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0002920	0000337	0000337	0000337	0034567
9:12:04	9:35:16	9:13:02	8:17:08	8:34:38	8:10:08	9:40:18	10:10:56	7:56:10	9:17:04	8:53:58	8:26:36	8:59:10	8:35:44	8:03:48
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85									1/11/86	2/10/86
	9:12:04 0000337 227.0	9:12:04 0000337 227.0 P	9:12:04 0000337 227.0 9:35:16 0000337 230.0 9:13:02 0000337 237.0	9:12:04 0000337 227.0 P 9:35:16 0000337 230.0 P 9:13:02 0000337 237.0 P 8:17:08 0000337 243.0 P	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 243.0 NORMAL 8:34:38 0000337 247.0 CONJUNCTIVITIS LEFT EXE	9:12:04 0000337 227.0 P 9:35:16 0000337 230.0 P 9:13:02 0000337 237.0 P 8:17:08 0000337 243.0 P 8:34:38 0000337 247.0 P 8:10:08 0000337 254.0 P	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:30:08 0000337 247.0 NORMAL 9:40:18 0034567 263.0 NORMAL	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 243.0 NORMAL 8:34:38 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 254.0 NORMAL 9:40:18 0034567 263.0 NORMAL 10:10:56 0000337 252.0 NORMAL	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 243.0 NORMAL 8:34:38 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 254.0 NORMAL 9:40:18 0034567 263.0 NORMAL 10:10:56 0000337 252.0 NORMAL 7:56:10 0000337 252.0 NORMAL	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 243.0 NORMAL 8:10:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 254.0 NORMAL 9:40:18 0034567 263.0 NORMAL 10:10:56 0000337 252.0 NORMAL 7:56:10 0000337 252.0 NORMAL 9:17:04 0072808 262.0 NORMAL	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 243.0 NORMAL 8:10:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 254.0 NORMAL 9:40:18 0034567 263.0 NORMAL 10:10:56 0000337 252.0 NORMAL 7:56:10 0000337 252.0 NORMAL 9:17:04 0072808 262.0 NORMAL 9:53:58 0002920 CONJUNCTIVITIS LEFT EYE	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 243.0 NORMAL 8:34:38 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 254.0 NORMAL 10:10:56 0000337 252.0 NORMAL 1:56:10 0000337 252.0 NORMAL 9:17:04 0000337 252.0 NORMAL 9:17:04 0000337 262.0 NORMAL 8:26:36 0000337 267.0 NORMAL	9:12:04 0000337 227.0 NORMAL 9:35:16 0000337 230.0 NORMAL 9:13:02 0000337 237.0 NORMAL 8:17:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 9:40:18 0034567 263.0 NORMAL 10:10:56 0000337 252.0 NORMAL 9:17:04 0072808 262.0 NORMAL 8:26:36 0000237 267.0 NORMAL 8:26:36 0000337 242.0 NORMAL	9:12:04 0000337 227.0 NORWAL 9:35:16 0000337 230.0 NORWAL 9:13:02 0000337 237.0 NORWAL 8:17:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 8:10:08 0000337 247.0 CONJUNCTIVITIS LEFT EYE 9:40:18 0034567 263.0 NORWAL 10:10:56 0000337 252.0 NORWAL 7:56:10 0000337 252.0 NORWAL 9:17:04 0072808 262.0 NORWAL 8:53:58 0002920 CONJUNCTIVITIS LEFT EYE 8:59:10 0000337 242.0 NORWAL 8:35:44 0000337 242.0 NORWAL

HISTORIES INDIVIDUAL ANIMAL (cont.):

ISOBUTYL 2-CYANOACRYLATE 1/29/85 STUDY: 0083009 START DATE: COMPOUND:

Appendix

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00338

LEFT CLINICAL OBSERVATIONS (GRAMS) **WEIGHT** OPERATOR 0000337 0000337 9:13:40 9:35:30 8:17:22 TIME 4/12/85 5/10/85 3/15/85 2/15/85 DATE

LEFT EYE SLIGHT LEFT EYE SLIGHT LEFT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, INTRAABDOMINAL MASS INGUINAL AREA SIZE MEDIUM EYE SLIGHT, LEFT CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY EXE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY INTRAABDOMINAL MASS ADJACENT TO LIVER SIZE MEDIUM CORNEAL OPACITY RIGHT EYE MODERATE, CORNEAL OPACITY INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE 245.0 255.0 259.0 268.0 271.0 277.0 294.0 0000337 0000337 0000337 0000337 0000337 0000337 8:35:02 8:10:58 9:40:36 10:11:28 7:27:20 6/07/85 7/03/85 8/02/85 8/30/85 8/15/85

--290

PAGE 660 DATE: 6/09/87^{CT} TIME: 14:40:130 EDS017 V4M11-

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN M.
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

6

Animal ID: 84D00339 Species: D Sex: FEMALE Group: 10 UL/ANM

EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT SLIGHT, EUTHANIZED SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT EYE EYE EYE EYE EYE EYE CORNEAL OPACITY LEFT E
CORNEAL OPACITY LEFT E
CORNEAL OPACITY LEFT E
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CORNEAL OPACITY LEFT E LEFT LEFT LEFT LEFT (GRAMS) CLINICAL OBSERVATIONS OPACITY OPACITY OPACITY OPACITY CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL 267.0 246.0 259.0 269.0 279.0 284.0 290.0 291.0 295.0 299.0 296.0 WEIGHT OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 0000337 0000337 0000337 0034567 0000337 0034567 10.14.04 7.47.08 7.56.26 9:17.26 8:26.54 8:59.26 8:36.04 8:54:16 8:35:22 8:11:32 9:35:54 8:17:38 9:43:12 TIME 2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/04/85 9/27/85 11/22/85 1/17/86 2/10/86 5/29/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE A
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00340 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

EYE MARKED, TACHYPNEA SLIGHT EYE MARKED, TACHYPNEA SLIGHT, STAIN CLEAR PERIANAL SLIGHT EYE MARKED, TACHYPNEA MODERATE, STAIN CLEAR PERIANAL	MARKED, TACHYPNEA SLIGHT MARKED MARKE	THE CHANGEL INCHIENCE SELENT, EVIDANIZED
CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT SLIGHT SLIGHT SATHEN PROPERAY SLIGHT	CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA SLIGHT	CHANGED, INCHIENCA
eye eye eye		1
BOTH BOTH BOTH	BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH	:
CONJUNCTIVITIS CONJUNCTIVITIS CONJUNCTIVITIS SLIGHT	CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH CONJUNCTIVITIS BOTH	211111111111111111111111111111111111111
221.0	224.0 231.0 242.0 242.0 253.0 253.0 254.0 259.0 272.0 273.0 265.0	•
0000337 0000337 0000337	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337	,
9:13:06 9:40:00 8:05:48	9:36:10 9:14:54 8:17:58 8:35:44 8:12:06 9:44:10 10:14:50 7:56:46 9:17:52 13:16:24 8:59:46 8:59:46	,
2/15/85 2/26/85 3/01/85	3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 9/27/85 0/25/85 1/22/85 1/12/85 2/10/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANG-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 69 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00341 Species: D Sex: FEMALE Group: CONTROLS

CLINICAL OBSERVATIONS	CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT SUBCUTANEOUS MASS LEFT INGUINAL AREA SIZE LARGE, CONJUNCTIVITIS RIGHT EYE MODERATE CORNEAL OPACITY BOTH EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SOFT SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SOFT SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SOFT SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SOFT SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SOFT SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SOFT SIZE LARGE CORNEAL OPACITY BOTH EXE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT,	
	CORRESPONDE CORRES)
WEIGHT (GRAMS)	212.0 224.0 237.0 248.0 255.0 264.0 274.0 274.0 293.0 293.0 297.0	
OPERATOR	00000337 00000337 00000337 00000337 00000337 00000337 0000337 00000337 00000337	
TIME	9:13:54 9:36:48 8:55:38 8:55:38 8:55:38 8:12:38 10:15:12 7:48:42 7:48:42 9:00:15:12 9:00:15:12 9:00:32 8:37:06	
DATE	2/15/85 3/15/85 3/15/85 5/10/85 5/29/85 6/07/85 8/02/85 8/02/85 10/25/85 11/22/85 11/22/85 11/22/85	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00342 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/15/85	9:14:30	0000337	234.0	CONJUNCTIVITIS	BOTH	EYE MA	RKED
3/15/85	9:37:08	0000337	233.0	CONJUNCTIVITIS	BOTH	EYE MA	MARKED
4/12/85	9:16:26	0000337	241.0	CONJUNCTIVITIS		YE MC	MODERATE
5/10/85	8:18:50	0000337	253.0	CONJUNCTIVITIS	BOTH E	EYE MC	DERATE
5/29/85	8:56:22	0000337		CONJUNCTIVITIS		YE MA	RKED
6/07/85	8:36:20	0000337	254.0	CONJUNCTIVITIS		YE MA	RKED
7/03/85	8:13:22	0000337	261.0	CONJUNCTIVITIS			MARKED
8/02/85	9:45:14	0034567	266.0	CONJUNCTIVITIS	BOTH E	EYE MA	MARKED
8/30/85	10:15:34	0000337	257.0	CONJUNCTIVITIS	-	EYE SI	SLIGHT
9/27/85	7:57:36	0000337	262.0	NORMAL			
10/02/85	9:07:04	0000337		CONJUNCTIVITIS	BOTH E	YE MO	BOTH EYE MODERATE
10/25/85	9:21:48	0072808	272.0	CONJUNCTIVITIS RIGHT	RIGHT	EYE M	ARKED
11/22/85	8:29:10	0000337	282.0	CONJUNCTIVITIS	RIGHT	EYE S	EYE SLIGHT
12/20/85	9:02:04	0000337	291.0	CONJUNCTIVITIS	RIGHT	EYE M	MARKED
1/11/86	8:38:26	0000337	284.0	NORMAL			
2/10/86	8:09:48	0034567	275.0	NORMAL / EUTHANIZED	IZED		

INDIVIDUAL ANIMAL HISTORIES F (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

17 6/09/87

DATE:

TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00343

CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, BOTH EYE SLIGHT, BOTH EYE BOTH EYE BOTH BOTH BOTH CORNEAL OPACITY RIGHT EYE SLIGHT
CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS
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CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS
CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CLINICAL OBSERVATIONS (GRAMS) 248.0 274.0 279.0 WEIGHT 245.0 256.0 256.0 274.0 289.0 280.0 286.0 OPERATOR 0072808 0000337 0000337 0000337 0084799 0000337 0034567 0000337 0000337 0000337 0000337 0000337 0000337 9:42:36 8:36:36 8:13:48 9:45:36 10:16:28 7:58:10 9:08:14 9:25:54 12:43:40 8:19:08 9:37:28 1:17:02 TIME 5/10/85 6/07/85 8/02/85 8/30/85 10/02/85 10/25/85 9/27/85 2/26/85 3/15/85 4/12/85 7/03/85 DATE

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE

SLIGHT,

SLIGHT

SLIGHT SLIGHT

HISTORIES ANIMAL INDIVIDUAL (cont.): h Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00345

SLIGHT SLIGHT SLIGHT, PALLOR MODERATE, EMACIATED MARKED, STAIN SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT CORNEAL OPACITY LEFT E
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CORNEAL OPACITY LEFT E WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS 254.0 255.0 265.0 269.0 276.0 287.0 288.0 291.0 294.0 279.0 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 9:47:16 10:17:30 7:59:28 9:27:10 8:29:34 9:41:24 9:17:36 8:19:28 8:38:38 9:15:14 9:37:54 TIME 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/27/85 11/2:/85 12/20/85 1/13/86 2/15/85 3/15/85 DATE

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 73 DATE: 6/69/87 TIME: 14:40:13 EDS017 V4M11

10 UL/ANM
Group:
FEMALE
Sex:
Species: D
84000346
inimal ID:

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		SLIGHT, CONJUNCTIVITIS LEFT EYE MAI											SLIGHT	
		LEF											S	
		TIS											HE/	
		TIVI											ROWN	
		NJON											AIN	
	<u>د</u>	0,0		٠.									ST	
	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT	SLIGHT, STAIN BROWN HEAD	
	EYE	EXE	EXE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	
SNOI	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	
)BSERVAT	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	PACITY	
CLINICAL OBSERVATIONS			_	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL (CORNEAL (CORNEAL	CORNEAL (CORNEAL (CORNEAL OPACITY	MORIBUND
WEIGHT (GRAMS)	215.0	212.0	225.0	230.0	239.0	250.0	262.0	270.0	279.0	285.0	298.0	281.0	235.0	
OPERATOR	00000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0000337
TIME	9:15:40	9:38:14	9:18:08	8:19:44	8:38:58	8:20:40	9:47:46	10:17:46	7:59:40	9:27:36	8:29:56	9:42:32	8:42:50	9:51:10
DATE	2/15/85	3/15/85	4/12/85	5/10/85	6/07/85	7/03/85	8/02/85	8/30/85	9/27/85	10/25/85	11/22/85	12/20/85	1/17/86	1/21/86

STUDY: 0083009 COMPOUND: ISOBUTYL 2-CYANOACRYLATE START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00348 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

YE SLIGHT		SYE SLIGHT	EYE SLIGHT EYE SLIGHT	EYE SLIGHT	EYE SLIGHT	YE SLIGHT	YE SLIGHT	YE SLIGHT	YE SLIGHT	YE SLIGHT
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EYE	EYE	EXE	EYE	EYE	EXE	EYE	EYS	EYE	EYE	EYE
LEFT LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	LEFT
OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	v	OPACITY	OPACITY	OPACITY	OPACITY ED
CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL (CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL OP EUTHANIZED
251.0	266.0	280.0	289.0	298.0	308.0	302.0	319.0	321.0	327.0	306.0
00000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
9:15:58 9:38:44	9:18:50	8:39:18	9:48:08	10:18:12	8:00:12	9:27:58	8:30:22	9:42:56	8:43:52	7:38:36
2/15/85 3/15/85	4/12/85	6/07/85	8/02/85	8/30/85	9/27/85	10/25/85	11/22/85	12/20/85	1/11/86	2/12/86

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 75 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Species: D Sex: FEMALE Group: CONTROLS Animal ID: 84D00349

WEIGHT

													SLIGHT	
												MODERATE	MODERATE, SCAB BACK	SLIGHT, EUTHANIZED
OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	STAIN BROWN NOSE SLIGHT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	CONJUNCTIVITIS LEFT EYE MODERATE	CONJUNCTIVITIS LEFT EYE	
(GRAMS) C	248.0	243.0	255.0							289.0	278.0	267.0	258.0	221.0
OPERATOR	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
TIME	9:16:32	9:39:28	9:19:26	8:20:34	8:39:36	8:21:38	9:48:30	10:18:36	8:00:46	9:28:28	8:30:42	9:43:12	8:44:12	7:40:12
DATE	2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/11/86	2/12/86

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84000350 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

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30/00/6	24.246	100000				
6/00/93	0 F: 0 T : 6	0000337		CONJUNCTIVITIS LE	LEFT EY	E SLIGHT
2/15/85	9:16:56	0000337	203.0	CONJUNCTIVITIS LE	LEGT BYE	
3/15/85	9:39:54	0000337	204.0			
4/12/85	9:20:22	0000337	211.0		LEGT EVE	
5/10/85	8:20:56	0000337	214.0			
6/07/85	8:40:20	0000337	222.0			-
7/03/85	8:22:22	0000337	225.0			_
8/02/85	9:49:16	0034567	236.0			
8/30/85	10:19:02	0000337	239.0	NORMA1.		
9/04/85	7:54:20	0000337		CTIVITIS	BOTH FVE	SLIGHT
9/27/85	8:01:12	0000337	250.0	NORMAL		
10/25/85	9:28:48	0072808	247.0	CONJUNCTIVITIS LEFT	SPT PVE	MODERATE
11/22/85	8:31:00	0000337	249.0	NORMAL	-	
12/20/85	9:43:40	0000337	250.0	CONJUNCTIVITIS LEFT	SPT RVE	SLIGHT
1/11/186	8:45:00	0000337	254.0	NORMAL		
2/12/86	7:41:44	0034567	235.0	NORMAL / EUTHANIZED	0	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 77 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00352 Species: D Sex: FEMALE Group: 100 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

SLIGHT	MODERATE												
SLIGHT, STAIN YELLOW PERIANAL SLIGHT SLIGHT	PERIANAL MODERATE												
YELLOW	YELLOW												IZED
HT, STAIN	LIGHT, STAIN YELLOW	H	HT	HT	HT								HT, EUTHAN
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		-	T EYE	T EYE	_								[EY
R IGHT R I GHT	RIGHT	RIGHT	RIGH	RIGHT	RIGHT								RIGHT
CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	CONJUNCTIVITIS RIGHT EYE SLIGHT, EUTHANIZED
217.0	217.0	222.0	221.0	227.0	237.0	246.0	251.0	255.0	254.0	259.0	258.0	261.0	241.0
00000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
9:17:34 9:17:10	9:46:30	9:20:52	8:21:14	8:40:44	8:22:54	9:49:42	10:19:20	8:54:40	9:29:58	8:31:16	9:44:08	8:45:22	7:42:52
2/08/85 2/15/85	2/26/85 3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/17/86	2/12/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLA
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00353 Species: D Sex: FEMALE Group: CONTROLS

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/15/85 9:18:02 0000337 232.0 NORMAL
4/12/85 9:21:28 0000337 234.0 NORMAL
5/10/85 8:21:30 0000337 249.0 NORMAL

NORMAL
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NORMAL 232.0 2346.0 244.0 249.0 2253.0 263.0 265.0 268.0 268.0 286.0 286.0 0000337 0000337 0000337 0000337 0000337 00134567 0000337 0000337 00000337 9:40:42 9:21:28 8:21:30 8:41:04 8:23:22 9:50:14 8:55:06 9:29:52 8:31:36 9:44:24 8:45:40 7:44:16 4/12/85 5/10/85 6/07/85 7/03/85 8/30/85 9/27/85 10/25/85 11/22/85 11/22/85 17/86

CARCINGGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

TIME: 14:40:13 EDS017 V4M11

6/09/87

DATE:

Animal ID: 84D00354 Species: D Sex: FEMALE Group: CONTROLS

RIGHT EYE MODERATE, CONJUNCTIVITIS LEFT EYE MODERATE RIGHT EYE MODERATE, CONJUNCTIVITIS LEFT SLIGHT RIGHT EYE MODERATE CORNEAL OPACITY RIGHT EYE MODERATE, TACHYPNEA SLIGHT CORNEAL OPACITY RIGHT EYE MODERATE, TACHYPNEA SLIGHT, CORNEAL OPACITY RIGHT EYE MODERATE, TACHYPNEA SLIGHT, SUBCUTANEOUS MASS LEFT INGUINAL AREA SIZE LARGE SUBCUTANEOUS MASS LEFT INGUINAL AREA SIZE LARGE CORNEAL OPACITY RIGHT EYE MODERATE RIGHT EYE MODERATE CORNEAL OPACITY RIGHT EYE MODERATE CORNEAL OPACITY RIGHT EYE MODERATE CORNEAL OPACITY RIGHT EYE MODERATE OPERATOR (GRAMS) CLINICAL OBSERVATIONS CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY 222.0 228.0 234.0 177.0 235.0 245.0 256.0 248.0 257.0 221.0 249.0 269.0 248.0 WEIGHT 0084799 0000337 0000337 0078478 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0072808 0000337 0000337 0034567 9:41:08 9:22:06 8:21:48 9:50:54 10:20:12 8:55:40 9:30:12 8:31:56 8:43:20 8:25:04 8:46:00 7:45:12 9:19:00 8:23:38 9:44:40 TIME 1/17/86 2/12/86 2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 0/25/85 11/22/85 12/20/85 2/27/85 8/30/85 9/27/85 DATE

SUBCUTANEOUS MASS LEFT INGUINAL AREA SIZE LARGE, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00355 Species: D Sex: FEMALE Group: 100 UL/ANM

	EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE MODERATE EYE MODERATE EYE MODERATE EYE MODERATE EYE MODERATE EYE MARKED EYE MARKED EYE MARKED EYE MARKED EYE MARKED EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT
CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT I CORNEAL OPACITY LEFT CORNEAL OPACITY LEFT CORNEAL OPACITY LEFT I NORMAL OPACITY LEFT ENCONJUNCTIVITIS LEFT EN
WEIGHT (GRAMS)	215.0 219.0 225.0 231.0 237.0 242.0 243.0 268.0 272.0 273.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	11:23:20 9:12:20 9:41:38 9:42:32 8:22:30 9:02:34 8:26:12 9:21:18 10:20:36 9:55:54 9:31:10 8:32:56 9:46:28
DATE	2/01/85 2/15/85 3/15/85 3/15/85 4/12/85 5/29/85 6/07/85 1/03/85 8/30/85 9/27/85 11/22/85 11/22/85 11/22/85

STUDY: 0083009	•		CARCINOGENIC
COMPOUND:	ISOBUTYL	ISOBUTYL 2-CYANOACRYLATE	ACRYLATE
START DATE:	1/28/85		

ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

PAGE 81
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00356 Species: D Sex: FEMALE Group: 100 UL/ANM

	CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED, CONJUNCTIVITIS BOTH EYE WARKED, CONJUNCTIVITIS BOTH EYE MARKED, CONJUNCTIVITIS BOTH EYE WARKED, CONJUNCTIVITIS BOTH EYES	
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WEIGHT (GRAMS)	241.0 259.0 271.0 277.0 284.0 287.0 291.0 255.0	
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337	
TIME	11:24:42 9:19:48 8:24:58 7:59:24 9:42:58 8:22:50 8:45:56 8:22:00 9:20:18 9:20:18 9:31:36 8:33:22 9:46:50	
DATE	2/01/85 2/15/85 2/15/85 3/11/85 3/11/85 3/15/85 3/10/85 6/07/85 8/02/85 8/30/85 9/27/85 11/22/85 11/22/85	

PAGE 820 DATE: 6/09/87 TIME: 14:40:130 EDS017 V4M117

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Species: D Sex: FEMALE Group: 10 UL/ANM Animal ID: 84D00357

WEIGHT

OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT	EYE	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT, CONJUNCTIVITIS	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE,	XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT,	XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT,	KYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT,	XYPHOID PROTUBERANCE SMALL	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT		CORNEAL OPACITY LEFT SLIGHT, XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, XYPHOID PROTUBERANCE SLIGHT,	SUBCUTANEOUS MASS LEFT THORAX SIZE MEDIUM, EUTHANIZED
RAMS) CL	229.0		O	233.0 C	×	248.0 C	254.0 C	×	269.0 C	×	273.0 C	×	269.0 C	Ī	Ŭ	_	_	_		271.0 C	S
OPERATOR (C	0000337		0078478	0000337 2		0000337 2	0000337 2		0000337 2		0084799 2		0034567 2	0000337 2	0000337 2	0072808 2	0000337 2	0000337 2	0000337 2	0084799 2	
TIME	11:26:10 9:20:10	8:20:38	8:25:50	9:44:22		9:24:04	8:23:08		8:46:36		8:27:56		9:52:26	10:21:32	8:57:26	9:32:42	8:36:52	9:48:44	9:56:08	7:49:00	
DATE	2/01/85 2/15/85	2/27/85	2/27/85	3/15/85		4/12/85	5/10/85		6/01/85		7/03/85		8/02/85	8/30/85	9/27/85	10/25/85	11/22/85	12/20/85	1/11/86	2/12/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 83 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00358 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

					SLIGHT										
					EYE	EYE	GHT								
					LEFT	LEFT	SE SLI								JI 2.P.D
					VITIS	VITIS	NN NO								EUTHANIZED
ļ	_				CTI	CTI	BRO								`
	NORMAL	NORMAL	NORMAL	NORMAL	CONJUN	CONJUNCTIVITIS LEFT EYE	STAIN BROWN NOSE SLIGHT	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL /
	270.0	277.0	283.0	288.0		291.0	294.0	303.0	299.0	303.0	297.0	306.0	304.0	306.0	288.0
	0000337	0000337	0000337	0000337	0000337	0000337	00000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567
	9:21:04	9:45:34	9:25:08	8:24:30					10:22:28						
									8/30/85					1/11/86	

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Species: D Sex: FEMALE Group: CONTROLS

Animal ID: 84000359

	!	SLIGHT		SLIGHT	SLIGHT	SLIGHT	SLIGHT			SLIGHT	SLIGHT	SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT	SLIGHT	EYE SLIGHT	ig.
CLINICAL OBSERVATIONS		CONJUNCTIVITIS BOTH EYE S		CORNEAL OPACITY BOTH EYE		CORNEAL OPACITY BOTH EYE			_	CORNEAL OPACITY BOTH EYE	CORNEAL OPACITY BOTH EYE	CORNEAL OPACITY BOTH EYE	CORNEAL OPACITY BOTH EYE	CORNEAL OPACITY BOTH EYE	* No observations recorded
WEIGHT (GRAMS)	209.0	217.0		230.0	240.0	247.0	243.0	255.0	259.0	267.0	265.0		268.0	257.0	
OPERATOR	0000337	0000337	0072808	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0002920	0000337	0000337	0000337
TIME	9:21:22	9:45:58	8:10:14	9:25:40	8:24:46	8:48:08	8:30:42	9:54:00	10:22:42	8:58:40	9:35:00	9:27:34	8:38:30	9:49:48	10:54:22
DATE	2/15/85	3/11/85	4/10/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/27/85	10/25/85	10/29/85	11/22/85	12/20/85	12/23/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 85 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00360 Species: D Sex: FEMALE Group: 100 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

			LIGHT	LIGHT	LIGHT	LIGHT								
	F		0)	SLI	SLI	SLI								
	IGH.		EYE	EXE	EYE	EYE								
	GE SI		LEFT	LEFT	LEFT	LEFT								
	CHAR		TIS	TIS	TIS	TIS								
	DIS		TIVI	TIVI	TIVI	TIVI								ZED
	INAL		JUNC	JONC	JUNC	JUNC								HANI
	VAG		SON	Š	Š	Š								EUT
	SLIGHT SLIGHT, VAGINAL DISCHARGE SLIGHT	LIGHT	LIGHT, CONJUNCTIVITIS LEFT	LIGHT, CONJUNCTIVITIS	LIGHT, CONJUNCTIVITIS	LIGHT, CONJUNCTIVITIS	IGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT	LIGHT, EUTHANIZED
	0, 0,	0, 0,	S	S	S	S	v	0)	O)	S	(C)	(C)	S	v)
	EXE	EYE	_	: EYE	EXE	EYE	EXE	EYE	EXE	EYE	EYE.	EYE	EYE	EYE
	LEFT	LEFT		LEFT	LEFT		LEFT							
	OPACITY LEFT OPACITY LEFT	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY
		_	-		OPA	OPA	OP.	OP.	OPA	OPA			_	OPA
	CORNEAL	CORNEAL	ORNEAL	ORNEAL	NEAL	CORNEAL C	NEAL	NEAL	NEAL	CORNEAL	ORNEAL	ORNEAL	ORNEAL	CORNEAL
	88	000	S	Ö	S	COR	S	CO	Ö	S	S	S	S	S
	204.0	0,	217.0	0.9	7.0	0.1	0.0	5.0	2.0	3.0	7.0	9.0	0.8	0.8
	20	23	21	5	22	23	23	24	25	25	24	24	25	22
	0000337	799	337	337	337	0000337	567	337	337	808	337	337	337	267
	0000	0000	000033	0000	0000	0000	0034	0000	0000	0072	0000	000033	0000337	0034567
l	: 50 : 18	58	48	:04	:42	50	: 28	9	:14	:28	50	90:	:04	:08
	9:21:50 8:29:18	1:02:58	9:26:48	8:25	8:48	8:31:20	9:54	0:23	8:59	9:35	8:38:50	9:50:06	9:27:04	7:53
,								_						
	2/15/85 2/27/85	28/8:15/8:	12/8	10/8	97/8	03/8	02/8	30/8	27/8	25/8	1/22/85	20/8	1/11/86	12/8
۱	2/2	3/6	-	2	3	7	8	8	6	10/	11/:	12/:	1/	77

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLAT
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00361 Species: D Sex: FEMALE Group: 10 UL/ANM

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	** ** **
	LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE LIVER SIZE
	L SLIGHT VENTRAL TO LIVER SIZE
SERVATIONS	ERIANA MASS MASS MASS MASS MASS MASS MASS M
CLINICAL OBSERVATIONS	NORMAL STAIN YELLOW PE NORMAL NORMAL NORMAL NORMAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL INTRAABDOMINAL
WEIGHT (GRAMS)	233.0 242.0 267.0 263.0 277.0 277.0 285.0 296.0 301.0 291.0 291.0
OPERATOR	0000337 0078478 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	9:22:06 8:32:46 8:03:28 9:47:38 9:27:38 9:27:38 9:53:58 8:32:00 9:55:26 8:32:00 9:55:28 8:39:04 8:39:04
DATE	2/15/85 2/27/85 3/11/85 3/11/85 3/15/85 4/12/85 5/10/85 5/21/85 6/07/85 10/25/85 11/22/85 11/22/85 11/20/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 87 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Species: D Sex: FEMALE Group: 10 UL/ANM Animal ID: 84D00363

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	STAIN CLEAR MOUTH MARKED
229.0	242.0	246.0	253.0	251.0	252.0	247.0	240.0	
0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0002920
9:22:22	9:48:10	9:28:14	8:25:40	9:55:46	8:33:26	9:56:34	11:41:50	10:03:40
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/13/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85

STUDY: 0083009 COMPOUND: IS START DATE:]

ANIMAL HISTORY

Group: CONTROLS Sex: FEMALE Species: D Animal ID: 84D00364

NORMAL NORMAL NORMAL OPAQUE LENS LEFT EYE SLIGHT, EUTHANIZED THIS ANIMAL TERM SACRIFICE 12 FEB 86 NOT REMOVED FROM CENSUS CLINICAL OBSERVATIONS NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL WEIGHT (GRAMS) 227.0 246.0 245.0 244.0 244.0 221.0 2255.0 2271.0 286.0 286.0 289.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 9:22:40 9:28:40 9:28:52 8:26:06 9:56:08 8:33:54 11:42:06 9:37:16 9:37:16 9:37:16 9:51:00 TIME 4/12/85 5/10/85 6/07/85 7/03/85 8/30/85 9/27/85 10/25/85 1/17/86 2/12/86 2/14/86 2/15/85 3/15/85 DATE

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE:]

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 89 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Species: D Sex: FEMALE Group: CONTROLS Animal ID: 84D00365

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

			RATE											MODERATE	
			MODE											LIOR	
			MARKED, TACHYPNEA MODERATE									63	ı	LARGE, PA	
KED	MODERATE	PODERATE	KED, T	MARKED	MARKED	AARKED	ARKED	WARKED	MARKED	TARKED	ERATE	DERATI	KED	SIZE	
EYE MARKED	YE MOD	EYE MOL	-			EYE MAR			-		EYE MODERATE	EYE MO	YE MAR	PLENIC	
BOTH E	BOTH E	BOTH	BOTH		BOTH	BOTH	BOTH E		BOTH	BOTH	BOTH	RIGHT	BOTH E	MASS S	
CONJUNCTIVITIS BOTH	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIE	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS BOTH	CONJUNCTIVITIS RIGHT EYE MODERATE	CONJUNCTIVITIS BOTH EYE MARKED	INTRAABDOMINAL MASS SPLENIC SIZE LARGE, PALLOR MODERATE	H.
CON	2 00	S S	S O	Ö	S O O	OS	CON	NOO	CON	CON	NO O	NO O	COS	INI	DEATH
193.0		200.0			205.0	212.0	214.0	222.0		215.0	222.0	233.0	227.0	225.0	
0000337	_	0000337	0000337	0072808	0000337	0000337	0000337	0000337	0010186	0034567	0000337	0000337	0072808	0000337	0000337
9:22:54	8:04:36	9:49:04	8:18:24	8:18:04	9:29:30	8:26:26	9:56:28	8:34:22	0:56:20	9:57:20	11:42:30	9:00:44	9:37:46	8:40:04	14:16:18
2/15/85	3/11/85	3/15/85	3/28/85	4/10/85	4/12/85	5/10/85	6/07/85	7/03/85	7/16/85	8/02/85	8/30/85	9/27/85	0/25/85	1/22/85	1/23/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00367 Species: D Sex: FEMALE Group: 100 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

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							YELLY											LAR	
							MIN											SIZI	
							IGHT. ST						SLIGHT					BDOMEN	
							TH SL						T EYE					WER A	
							MOU W						RIGH					ASS LC	
							XELLO						VITIS	•				VAL M	
							TAIN						UNCTI					BDOMI	
							WTE, S	•					CONJ					NTRAA	
	CONJUNCTIVITIS LEFT EYE SLIGHT NORMAL.		CONJUNCTIVITIS LEFT EYE MODERATE	SLIGHT		CONJUNCTIVITIS LEFT EYE SLIGHT	CHROMODACRYORRHEA BOTH EYE MODERATE, STAIN YELLOW MOUTH SLIGHT, STAIN YELLOW				CONJUNCTIVITIS BOTH EYE SLIGHT	LIGHT	EYE MODERATE, CONJUNCTIVITIS RIGHT EYE SLIGHT	SLIGHT	MARKED	SLIGHT	MARKED	EYE MARKED, INTRAABDOMINAL MASS LOWER ABDOMEN SIZE LARGE	
	EYE S		EYE P	EYE S	!	S XE S	TH EY				SYES	EYE S	XE M	EYE S	EXEM	EYE S	EYE M	YE M	
LIONS	LEFT		LEFT	LEFT		LEFT	A BO				OTH I	EFT	LEFT	LEFT				LEFT E	
SERVA	ITIS		ITIS	CONJUNCTIVITIS LEFT		ITIS	YORRHE	LIGHT			ITIS I	CONJUNCTIVITIS LEFT	I SILI	ITIS		CONJUNCTIVITIS LEFT	ITIS I	CONJUNCTIVITIS LEFT	
AL OB	NCTIV	۱ 🗀	NCTIV	NCTIV		NCTIV	ODACR	NAL S	_	-1	NCTIV	NCTIV	NCTIV	NCTIV	NCTIV	NCTIV	NCTIV	NCTIV]	
CEINIC	CONJUN	NORMAL	CONCO	CONJU	NORMAL	CONJU	CHROM	PERIANAL SLIGHT	NORMAL	NORMAL	CONJU	CONJU	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJU	CONJUNCTIVITIS	CONJU	
OFENATOR (GRAMS) CLINICAL OBSERVATIONS	239.0	244.0			254.0	260.0				258.0	263.0	268.0		269.0	265.0	285.0			
ğ	137	137	137	801			66		137				37				20	37	
OF ER	00000337	0000	0000	00726	0000	0000	00847		0000	0000	0000	00345	0000	0000	0000	00728	0002920	0000	
3611	9:23:32	19:30	9:46	9:54	10:18	6:52	4:30		5:42	6:58	8:35:06	9:00	6:04	2:58	1:12	8:18	2:12	2:48:28	
	9:2	9:4	8:1	8:1	9:3	8:2	7:3		9:4	9:5	8:3	9:5	8:2	11:4	9:0	9:3	9:3	12:4	
3	2/15/85 3/11/85	15/85	28/82	10/85	12/85	10/85	21/85		12/85	17/85	33/85	12/85	28/82	30/85	28/13	58/5	10/29/85	19/85	
š	3/3	3/1	3/.	-	7	5/	5/3		5/3) /9	7,	7/8	8/,	.78	7.76	10/2	10/2	11/1	

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

PAGE 91 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY 00368 Species: D Sex: FEMALE Group: CONTROLS

Animal ID: 84D00368 Species: D Sex: FEMALE Group: CONTR NEIGHT DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

	SLIGHT											
	SCHARGE											
	PERIANAL SLIGHT, VAGINAL DISCHARGE SLIGHT											
	SLIGHT, V	SLIGHT										ED
	NAL	NAL										MARK
	PERIA	PERIANAL										PERIANAL MARKED
	LLOW	LLOW										PER
4	XE	YE	7	7	7	7	7	-1	-1	-1	-1	ING
NORM	STAIN	STAIR	NORMAL	NORM	NORM	NORM	NORM	NORMA	NORM	NORMA	NORMA	BLEED
257.0				269.0	284.0	298.0	304.0	309.0	310.0	289.0	298.0	
0000337	0078478	0084799	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0000337
9:23:56	8:38:08	8:12:56	8:06:52	9:51:44	9:31:14	8:27:18	9:57:12	8:35:52	9:59:16	11:43:16	9:01:34	10:18:02
			3/11/85									

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00369 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL / EUTHANIZED	
187.0	189.0	198.0	240.0	196.0	201.0	197.0	204.0	206.0	216.0	219.0	214.0	215.0	203.0	
0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0034567	
9:24:14	9:53:00	9:31:36	8:27:40	9:57:34	8:36:26	9:59:40	11:43:34	9:01:54		8:42:10	9:51:18	9:28:58	7:56:44	
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	11/22/85	12/20/85	1/11/86	2/12/86	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 93 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00371 Species: D Sex: FEMALE Group: CONTROLS

	RATE SD	MARKED MODERATE, CONJUNCTIVITIS RIGHT EXE SLIGHT	EXE MODERATE, CONJUNCTIVITIS RIGHT EYE SLIGHT	EYE MODERATE, CONJUNCTIVITIS RIGHT EYE SLIGHT	MARKED, CONJUNCTIVITIS RIGHT EYE SLIGHT				TATE				
	EYE MODERATE EYE MARKED	EYE MARKED	EYE MODE	E MODE!	EYE MARKI	EYE SLIGHT			CONJUNCTIVITIS BOTH EYE MODERATE				
SN						H EY			H EY				۵
ATIO	BOTH	BOTH	LEFT	LEFT	LEFT	BOTH			BOT				MIZE
SERV	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS	CONJUNCTIVITIS			ITIS				NORMAL / EUTHANIZED
L OB	CTIV	CTIV	CTIV	CTIC	CTIV	CTIV			CTIV				/ E
NICA	NOCK NOCK	X C C K	NUCK	ZON.	X CON	NOCK	NORMAL	VORMAL	NOCK	NORMAL	NORMAL	NORMAL	RMAL
CLI	88	88	8 8	88	ဥ	8	2	2	ខ	2	2	2	Ş
WEIGHT (GRAMS) CLINICAL OBSERVATIONS	222.0	231.0	229.0	257.0	263.0	262.0	260.0	271.0	278.0	275.0	281.0	282.0	262.0
TOR	37	37	75	: ::	37	67	37	37	8	37	37	7.	23
OPERATOR	0000337 0078478	0000337 0000337	755000	000337	1000337	0034567	0000337	0000337	0072808	000337	0000337	0000337	0034567
ō 1	•	00	00	0	0	_	_		٠	٥	0	_	_
TIME	9:24:30 8:40:16	9:53:18	8:28:04	9:58:36	8:36:52	9:59:56	1:44:00	9:02:12	9:39:20	8:42:24	9:51:38	9:29:12	7:57:40
Ę	9 8	9.9	8:4	6	80	9:5	11:4	9:0	6	8:4	9:5	6	7:5
63	785 785	/85 /85	785	85	85	85	85	85	,85	185	85	,86	,86
DATE	2/15/85 2/27/85	3/15/85 4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/27/85	.0/25/85	1/22/85	12/20/85	1/11/86	2/12/86
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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Species: D Sex: FEMALE Group: 10 UL/ANM Animal ID: 84D00373

WEIGHT

DATE	TIME	OPERATOR	(GRAMS)	OPERATOR (GRAMS) CLINICAL OBSERVATIONS	OBSERVA	LIONS			
2/15/85	9.24.50	20000	207 0	CORNEAL	OPACITY	P TGHT	3 3	SLIGHT	
20/21/2	0.63.0	60000	222	CODNEAT	VET OF GO) i	FUCTION	
20/07/6	8:55:6	750000	0.222	CORREAD	OFACILL		1 1 2 1	149176	
4/12/85	9:33:24	0000337	228.0	CORNEAL		RIGHT	EXE	SLIGHT	
5/10/85	8:28:26	0000337	244.0	CORNEAL	OPACITY	RIGHT	EXE	SLIGHT	
6/01/85	9:59:02	0000337	236.0	CORNEAL	OPACITY	RIGHT	EYE	SLIGHT	
7/03/85	8:38:00	0000337	250.0	CORNEAL	OPACITY	RIGHT	EYE	SLIGHT	
8/02/85	10:00:30	0034567	254.0	CORNEAL	OPACITY	RIGHT	EXE	SLIGHT	
8/30/85	11:44:24		258.0	CORNEAL	OPACITY	RIGHT	EXE	SLIGHT	
9/27/85	9:02:28	0000337	262.0	CORNEAL	OPACITY	RIGHT		SLIGHT	
10/25/85	9:39:46		264.0	CORNEAL	OPACITY	RIGHT	EXE	SLIGHT	
11/22/85	8:43:06	0000337	269.0	CORNEAL	OPACITY	RIGHT		SLIGHT	
12/20/85	9:51:52	0000337	267.0	CORNEAL	OPACITY	RIGHT		SLIGHT	
1/11/86	9:29:40	0000337	266.0	CORNEAL	OPACITY	RIGHT	EXE	SLIGHT	
2/12/86	7:58:42	0034567	246.0	CORNEAL	OPACITY	RIGHT	EXE	SLIGHT, EUTHANIZED	THANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

95 DATE: 6/09/87 TIME: 14:40:13 EDS017 VAM:

ANIMAL HISTORY

Animal ID: 84D00375 Species: D Sex: FEMALE Group: 100 UL/ANM

CLINICAL OBSERVATIONS OPACITY CORNEAL (GRAMS) 221.0 225.0 WEIGHT OPERATOR 0000337 0000337 7660000 9:53:58 9:25:14 TIME 2/15/85 3/15/85 3/20/85

INTRABBOMINAL MASS VENTRAL IT LIVER SIZE LARGE CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE, EUTHANIZED RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT OPACITY RIGHT EYE SLIGHT OPACITY RIGHT EYE SLIGHT INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY RIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT, CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT, RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY OPACITY CORNEAL CORNEAL CORNEAL CORNEAL 238.0 249.0 253.0 254.0 264.0 265.0 274.0 273.0 280.0 281.0 281.0 243.0 0000337 0072808 0000337 0000337 0072808 0000337 0000337 0000337 0034567 0000337 0034567 0000337 7:52:46 8:00:30 9:59:26 9:02:46 8:44:30 9:52:12 9:29:54 8:20:48 9:33:56 8:28:44 10:00:50 9:40:14 8:38:34 11:44:44 4/12/85 5/10/85 6/07/85 2/12/86 7/03/85 8/02/85 11/22/85 12/20/85 1/11/186 4/10/85 8/30/85 9/27/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Sex: FEMALE Group: 100 UL/ANM

Animal ID: 84D00376 Species: D

TIME

DATE

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

0078478 7:54:20 2/13/85

DEATH

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 97
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

PEMALE Actes TD: 84000378

Group: CONTROLS	NS III	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT, TACHYPNEA SLIGHT SOLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CONJUNCTIVITIS BOTH EYE MODERATE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS LEFT EYE MARKED, TACHYPNEA SLIGHT CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE MARKED NORMAL NORMAL NORMAL
Sex: FEMALE Group:	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE MARKED CONJUNCTIVITIS LEFT EYE MARKED NORMAL NORMAL
Species: D S	WEIGHT (GRAMS)	213.0 228.0 234.0 233.0 248.0 259.0 259.0 261.0 261.0
Speci	OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
84000378	TIME	9:25:34 8:14:28 8:09:44 9:54:28 9:34:42 10:00:14 10:01:14 10:01:14 11:45:10 9:41:24 9:41:24 9:51:06
Animal ID: 84D00378	DATE	2/15/85 2/27/85 3/01/85 3/11/85 3/11/85 3/15/85 4/12/85 6/07/85 6/07/85 8/28/85 10/25/85 11/22/85 11/22/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00380

SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT SLIGHT, STAIN YELLOW PERIANAL SLIGHT SLIGHT, EUTHANIZED EYE SLIGHT,
EYE SLIGHT,
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CORNEAL

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 99 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00381 Species: D Sex: FEMALE Group: CONTROLS

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
2/15/85 2/27/85	9:26:28 8:45:54	0000337	241.0	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MODERATE, CONTINUENTE LEFT EYE MADEEN
3/15/85 3/20/85	9:55:10 7:55:10	00000337	249.0	CONSOLITATION LEFT ET STUDENT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MARKED, CONJUNCTIVITIS LEFT EYE MARKED,
4/12/85	9:35:50	0000337	255.0	EYE
5/10/85	8:29:56	0000337	268.0	EYE
5/21/85	7:44:40	0000337		EYE
5/30/85	7:22:22 10:01:28	00000337	274.0	EXE
8/02/85 8/30/85	10:02:16	0034567	286.0	OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE
9/27/85 10/25/85 11/22/85 12/20/85	9:05:58 9:42:18 8:47:02 9:53:40	0000337 0000337 0000337	298.0 303.0 308.0	CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE CORNEAL OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE
2/12/86	8:05:20	0034567	285.0	OPACITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE

--324

TIME: 14:40:13p

DATE:

HISTORIES ANIMAL INDIVIDUAL (cont.): Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

FEMALE

Sex:

CORNEAL OPACITY RIGHT EYE MODERATE, CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY RIGHT EXE MODERATE, CONJUNCTIVITIS BOTH EYE INTERABDOMINAL MASS VENTRAL TO LIVER INTERABDOMINAL MASS VENTRAL TO LIVER Group: 10 UL/ANM CLINICAL OBSERVATIONS WEIGHT (GRAMS) 232.0 229.0 230.0 Species: D OPERATOR 0000337 0000337 0000337 Animal ID: 84D00383 9:26:58 8:22:48 9:55:54 TIME 2/15/85 2/28/85 3/15/85 DATE

EYE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM MARKED, CORNEAL OPACITY RIGHT EYE MODERATE, CONJUNCTIVITIS BOTH EYE MARKED, BOTH EYE MARKED INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, EUTHANIZED CORNEAL OPACITY RIGHT EYE MODERATE, CONJUNCTIVITIS INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE SMALL MASS VENTRAL TO LIVER, SIZE SMALL VENTRAL TO LIVER SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER, SIZE SMALL VENTRAL TO LIVER SIZE MEDIUM SMALL MASS VENTRAL TO LIVER SIZE SMALL SMALL VENTRAL TO LIVER SIZE SMALL VENTRAL TITITVER SIZE SMALL MASS VENTRAL TO LIVER SIZE MASS VENTRAL TO LIVER SIZE MASS VENTRAL TO LIVER SIZE SIZE VENTRAL TO LIVER SIZE MASS VENTRAL TO LIVER SIZE VENTRAL TO LIVER SIZE VENTRAL TO LIVER BOTH EYE MODERATE, BOTH EYE MODERATE, EYE MODERATE, EYE MODERATE, RIGHT EYE SLIGHT, BOTH EYE MARKED, EYE MARKED, EYE MARKED, EYE SLIGHT, EYE SLIGHT, EYE MARKED, BOTH EYE SLIGHT, EYE MARKED, BOTH BOTH LEFT BOTH BOTH MASS BOTH MASS MASS MASS MASS BOTH MASS BOTH INTRABBOOMINAL CONJUNCTIVITIS INTRABBOOMINAL CONJUNCTIVITIS INTRABBDOMINAL INTRABBOOMINAL INTRABBOOMINAL CONJUNCTIVITIS CONJUNCTIVITIS INTRAABDOMINAL CONJUNCTIVITIS INTRAABDOMINAL CONJUNCTIVITIS CONJUNCTIVITIS INTRABBDOMINAL CONJUNCTIVITIS INTRABBOOMINAL CONJUNCTIVITIS CONJUNCTIVITIS INTRABBDOMINAL CONJUNCTIVITIS INTRABBOOMINAL CONJUNCTIVITIS INTRABBOOMINAL CONJUNCTIVITIS INTRABBDOMINAL CONJUNCTIVITIS 269.0 246.0 259.0 273.0 283.0 238.0 244.0 250.0 252.0 271.0 268.0 282.0 293.0 286.0 0034567 0084799 0000337 0000337 0084799 0000337 0084799 0072808 0002920 0000337 0000337 0034567 0000337 0000337 0000337 9:06:20 9:06:20 8:40:56 10:02:40 7:34:46 11:46:12 9:36:50 9:36:26 8:30:32 10:02:12 9:42:50 8:47:24 9:54:06 9:32:00 8:06:32 9:31:44 8/30/85 10/29/85 6/07/85 7/03/85 8/02/85 4/03/85 1/12/85 4/25/85 5/10/85 8/15/85 9/21/85 10/25/85 11/22/85 12/20/85 1/11/86 2/12/86

INDIVIDUAL ANIMAL HISTORIES Appendix F (cont.):

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-	NYLATE ACRYLATE (IBC) IN MALE AND FEMALE RATS.	
	ISOBUTYL 2-CYANOACRYLAT	
_	ISOBUTYL	1/28/85
30X: 0083009	POUND:	ART DATE: 1/28/85

PAGE 101 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

CARCINOCENICITY BIOASSAY OF ISOBUTY ACRYLATE (IBC) IN MALE AND FEMAI ANIMAL HISTORY	Species: D Sex: FEMALE Group: CONTROLS
RYLATE	D Sex
SOBUTYL 2-CYANOACRYLATI 1/28/85	Species:
	Animal ID: 84D00384
STUDY: 0083009 COMPOUND: START DATE:	I ID:
STUDY: 00 COMPOUND: START DAT	Anima

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	: SLIGHT SCAB NECK MARKED SCAB NECK MARKED
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(GRAMS) CLINICAL OBSERVATIONS	SCHARGE SLIGHT ARKED,
NE O	EAD LEAD
CLINICA	NORMAL VAGINAL DIS NORMAL NORMAL SCAB HEAD S SCAB HEAD S SCAB HEAD S SCAB HEAD S
	223.0 233.0 237.0 240.0
OPERATOR	0000337 0078478 0000337 0000337 0000337 0000337
TIME	9:29:40 8:48:38 8:16:22 9:58:12 9:38:48 9:51:48 8:34:38 7:25:08

(cont.): INDIVIDUAL ANIMAL HISTORIES

9 CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN MALE AND FEMALE RATS.
1/28/85

Appendix

STUDY: 0083009 COMPOUND: START DATE:

ANIMAL HISTORY

Animal ID: 84D00386 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

EYE SLIGHT, STAIN BROWN NOSE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT SLIGHT, EUTHANIZED EYE SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT EYE SLIGHT EYE SLIGHT SLIGHT EYE EYE EYE BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH BOTH CORNEAL OPACITY BE CORNEAL OPACI OPACITY CORNEAL 212.0 2216.0 221.0 231.0 240.0 251.0 251.0 251.0 242.0 203.0 0072808 0000337 0000337 0000337 0000337 0000337 0072808 0034567 0000337 0000337 0000337 0000337 0000337 0000337 0000337 7:58:26 8:25:30 9:39:32 8:36:20 10:03:36 8:42:34 10:07:16 11:47:14 9:07:38 8:48:34 9:55:04 6:09:12 9:30:02 9/02/85 8/30/85 9/27/85 10/25/85 11/22/85 1/17/86 2/12/86 3/20/85 4/10/85 4/12/85 6/07/85 7/03/85 3/15/85 5/10/85 2/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 103
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00387 Species: D Sex: FEMALE Group: CONTROLS

										PERIVAGINAL FISTULE PURILENT DISCHAR										MEDIUM, EUTHANIZED
WEIGHT TOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	CONJUNCTIVITIS LEFT EYE SLIGHT	NORMAL	NORMAL	CONJUNCTIVITIS LEFT EYE SLIGHT	NORMAL	CONJUNCTIVITIS LEFT EYE SLIGHT	NORMAL	* No observations recorded.	SUBCUTANEOUS MASS PERIVAGINAL SIZE MEDIUM, PERIVAGINAL FISTULE PURILENT DISCHAR	FISTULA PERIVAGINAL PURULENT DISCHARGE	FISTULA PERIVAGINAL	FISTULA PERIVAGINAL PURULENT DISCHARGE	FISTULAE PERIVAGINAL PURULENT DISCHARGE	FISTULA PERIVAGINAL PURULENT DISCHARGE	FISTULAE PERIVAGINAL PURULENT DISCHARGE	PERIVAGINAL FISTULA	PERIVAGINAL FISTULA BLEEDING MODERATE	PERIVAGINAL FISTULA MODERATE	CUTANEOUS MASS PERIVAGINAL FISTULATED SIZE MEDIUM, EUTHANIZED
WEIGHT (GRAMS)	203.0			207.0	211.0	220.0		226.0	232.0		244.0		246.0	251.0	258.0	262.0	255.0		259.0	244.0
OPERATOR	0000337	0078478	0000337	0000337	0000337	0000337	0000337	0000337	0000337		0034567	0000337	0000337	0000337	0084799	0000337	0000337	0000337	0000337	0000337
TIME	9:30:24	8:50:34	8:14:52	10:00:46	9:40:12	8:36:36	7:27:54	10:04:02	8:43:14		10:07:48	8:34:46	11:47:40	9:01:56	9:44:14	8:48:52	9:55:16	11:13:40	9:32:56	7:38:14
DATE	2/15/85	2/27/85	3/11/85	3/15/85	4/12/85	5/10/85	5/30/85	6/01/85	7/03/85		8/02/85	8/28/85	8/30/85	9/27/85	10/25/85	11/22/85	12/20/85	12/28/85	1/11/86	2/14/86

STUDY: 0083009
COMPOUND: ISOBUTYL
START DATE: 1/28/85

ISOBUTYL 2-CYANOACRYLATE 1/28/85

CARCINOGEMICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00388 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL
NORMAL
NORMAL
NORMAL
NORMAL
STAIN BROWN NOSE SLICHT
OCULAR PALLOR SLIGHT, INTRAABDOMINAL SPLEENIC MASS SIZE LARGE
* No observations recorded. 236.0 238.0 252.0 250.0 250.0 270.0 250.0 0000337 0000337 00000337 00000337 00000337 00084799 9:30:40 10:01:12 9:40:44 8:37:12 10:04:30 8:46:32 10:12:08 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 2/15/85 3/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

DATE: 6/09/87 TIME: 14:40:13

V4M11

EDS017

ANIMAL HISTORY

Animal ID: 84D00389 Species: D Sex: FEMALE Group: CONTROLS

CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE, SCAB RIGHT LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED
LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED
LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED
LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, ROUGH COAT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, DEHYDRATED LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT, ROUGH COAT CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, SCAB RIGHT CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, SCAB RIGHI CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, SCAB RIGHT CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA CORNEAL OPACITY LEFT EYE SLIGHT, ROUGH COAT MODERATE, TACHYPNEA SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, ROUGH COAT MODERATE, TACHYPNEA SLIGHT, MODERATE, TACHYPNEA SLIGHT, WHEEZING MODERATE MODERATE, TACHYPNEA SLIGHT, WHEEZING MODERATE CARDIAC IRREGULARITY MODERATE CARDIAC IRREGULARITY MODERATE CORNEAL OPACITY LEFT CORNEAL OPACITY LEFT CORNEAL OPACITY LEFT CLINICAL OBSERVATIONS CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY EAR MODERATE EAR MODERATE EAR MODERATE EAR MODERATE SLIGHT SLIGHT WEIGHT (GRAMS) 219.0 222.0 225.0 204.0 208.0 200.0 199.0 205.0 OPERATOR 0000337 0084799 0000337 0000337 0000337 0034567 0002920 0000337 0078478 0000337 0000337 0000337 0000337 0000337 9:30:56 8:52:04 10:06:58 8:17:52 8:15:10 10:16:18 11:50:04 8:48:36 9:41:22 8:47:20 8:36:22 10:01:34 8:37:24 10:04:52 TIME 2/15/85 2/27/85 6/01/85 8/30/85 9/10/85 9/13/85 3/01/85 3/15/85 4/12/85 5/10/85 7/03/85 8/02/85 8/28/85 3/11/85 DATE

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00390 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

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OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	
CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL
234.0	250.0	255.0	252.0	267.0	269.0	272.0	273.0	273.0	266.0		
0000337	0000337	00000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0002920	0000337
9:31:14	10:05:14	9:43:30	8:38:50	10:05:38	8:47:58	10:16:42	11:51:46	9:10:16	9:46:50	9:42:14	8:44:14
2/15/85	3/15/85	4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/21/85	10/25/85	10/29/85	11/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 107 DAIE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00391 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

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	CORNE	CORNE	CORNE	CORNEAL	CORNEAL	CORNE	CORNEAL	CORNEAL	CORNEAL	CORNE	CORNE	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL
	228.0			237.0	211.0	238.0			263.0	267.0	274.0	284.0	293.0	295.0	292.0	287.0	0.77.	248.0
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	0000337	0078478	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0000337
	36	9	:20	:34	:10	14	: 55	00:	90:	38	:08	80:	32	80	30	18	04	16
	9:31:36	8:55	8:19	10:05	9:44	8:39	7:50	7:31	10:06	8:48	10:19	11:52	9:10	9:47	8:50	9:56	9:34	7:44
1	85	85	85	92	92	85	92	82	85	85	85	82	85	85	85	85	86	98
	2/15/	1/2/2	3/01/	3/15/	4/12/	5/10/	5/21/	5/30/	//0/9	7/03/	8/07/	8/30/85	9/27/	10/25/	11/22/	12/20/	1/11/1	2/14/
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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ANIMAL HISTORY ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00392

CORNEAL OPACITY LEFT SLIGHT, INTRABBOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL. INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, CORNEAL OPACITY LEFT EYE, CORNEAL OPACITY LEFT EXE SLIGHT,
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL
CORNEAL OPACITY LEFT SLIGHT, CONJUNCTIVITIS RIGHT EXE MODERATE,
INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL SLIGHT, STAIN YELLOW PERIANAL SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, STAIN BROWN PERIANAL MARKED, PALLOR MARKED, EMACIATED MARKED INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY LEFT EYE SLIGHT, SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT SLIGHT LEFT EYE (GRAMS) CLINICAL OBSERVATIONS OPACITY OPACITY CORNEAL OPACITY CORNEAL 199.0 205.0 210.0 220.0 228.0 233.0 235.0 239.0 241.0 246.0 WEIGHT 222.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0072808 0000337 0000337 0072808 0000337 0000337 0000337 0000337 0000337 0000337 9:44:36 8:49:04 10:19:32 7:22:08 9:48:18 8:51:16 10:06:22 0:90:0 13:13:48 12:43:36 8:03:16 8:29:06 7:51:32 11:52:30 9:10:52 TIME 5/10/85 6/07/85 6/18/85 7/03/85 8/02/85 8/30/85 9/27/85 10/16/85 10/25/85 12/03/85 3/15/85 3/20/85 4/10/85 4/12/85 5/21/85 11/22/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

PAGE 109 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00393 Species: D Sex: FEMALE Group: 100 UL/ANM

	HYPNEA MODERATE	HYPNEA MODERATE PNEA SLIGHT				EYE MODERATE, STAIN BROWN NOSE SLIGHT										emaciated moderate, rough coat marked, chromodacryorrhea marked, stain Yellow Perianal moderate
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE MODERATE, TACHYPNEA MODERATE	CONJUNCTIVITIS BOTH EYE MODERATE, TACHYPNEA MODERATE CONJUNCTIVITIS BOTH EYE SLIGHT, TACHYPNEA SLIGHT	PURULENT VAGINAL DISCHARGE NORMAL	NORMAL CONJUNCTIVITIS RIGHT EYE MODERATE	CONJUNCTIVITIS RIGHT EYE SLIGHT	CTIVITIS RIGHT	NORMAL	NORMAL	EXE	RIGHT EYE	RIGHT EYE	CONJUNCTIVITIS RIGHT EYE MARKED	CONJUNCTIVITIS RIGHT EYE SLIGHT	CONJUNCTIVITIS RIGHT EYE SLIGHT	CONJUNCTIVITIS RIGHT EYE MARKED	EMACIATED MODERATE, ROUGH COAT MARKED, PERIANAL MODERATE
WEIGHT (GRAMS)	244.0	261.0 271.0		272.0	279.0		286.0	283.0		286.0	287.0	294.0	286.0	266.0	258.0	
OPERATOR	00000337	0000337 0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0000337	0072808	0000337	0000337	0000337	0000337
TIME	10:37:30 8:18:38	10:06:16 9:45:36	7:11:06 9:09:24	8:40:06	10:07:28	7:24:30	8:50:22	10:20:34	8:41:00	11:54:02	9:11:44	9:49:48	8:52:52	9:56:36	9:34:24	7:10:36
DATE	2/15/85	3/15/85 4/12/85	5/02/85 5/07/85	5/10/85	6/01/85	6/18/85	7/03/85	8/02/85	8/28/85	8/30/82	9/27/85	10/25/85	11/22/85	12/20/85	1/11/86	1/23/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACI
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00394 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/15/85 10:37:54 0000337 222.0 CORNEAL OPACITY BOTH EYE SLIGHT

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	SLIGHT	EYE	_	OPACITY	CORNEAL	274.0	337	0000
	SLIGHT	EYE	_	OPACITY	CORNEAL	282.0	80	00728
	SLIGHT	EYE	-	OPACITY	CORNEAL	275.0	37	00003
	SLIGHT	EYE		OPACITY	CORNEAL	268.0	37	00003
	SLIGHT	EYE		OPACITY	CORNEAL	260.0	29	00345
	SLIGHT	EYE		OPACITY	CORNEAL	265.0	37	00003
	SLIGHT	EYE		OPACITY	CORNEAL	261.0	37	00003
	SLIGHT	EYE		OPACITY	CORNEAL	250.0	7	00003
	SLIGHT	EYE			CORNEAL	242.0	7	000033
	SLIGHT	EYE	BOTH		CORNEAL	232.0	_	000033
	SLIGHT	EYE	BOTH	OPACITY	CORNEAL	222.0	_	000033

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 111 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00395 Species: D Sex: FEMALE Group: CONTROLS

MEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

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			RIGHT F	RIGHT	RIGHT			PICHT				PIGHT	RIGHT	
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OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	PACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	OPACITY	
CORNEAL	CORNEAL OPACITY	CORNEAL		CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL OPACITY	CURNEAL OPACITY	CORNEAL OPACITY	CORNEAL	CORNEAL	CORNEAL OPACITY	
249.0	259.0	263.0	270.0	280.0	288.0	295.0	299.0	313.0	313.0	315.0	317.0	311.0	284.0	
0000337	0000337	0000337	00000337	0000337	0000337	0034567	0000337	0000337	0072808	0000337	0000337	0000337	0000337	
10:38:16	10:07:12	9:47:42	8:40:40	10:08:12	8:51:52	10:21:18	11:54:48	9:12:20	9:50:34	8:53:28	9:57:12	9:35:36	7:47:28	
2/15/85	3/15/85	1/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/30/85	9/27/85	0/25/85	1/22/85	2/20/85	1/17/86	2/14/86	

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: IS START DATE: 1

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00396

CLINICAL OBSERVATIONS WEIGHT (GRAMS) OPERATOR TIME DATE

CONJUNCTIVITIS LEFT EYE MARKED
CONJUNCTIVITIS LEFT EYE MARKED, EUTHANIZED NORMAL
CONJUNCTIVITIS LEFT EYE SLIGHT
CONJUNCTIVITIS LEFT EYE SLIGHT
CONJUNCTIVITIS BOTH EYE MODERATE
NORMAL NORMAL CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS LEFT EYE MODERATE CONJUNCTIVITIS LEFT EYE MODERATE NORMAL CONJUNCTIVITIS LEFT EYE SLIGHT NORMAL NORMAL NORMAL NORMAL 228.0 229.0 238.0 252.0 262.0 209.0 221.0 274.0 277.0 279.0 280.0 250.0 263.0 0000337 0034567 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 0002920 0000337 0000337 10:38:34 10:07:50 9:48:36 8:41:08 10:09:08 8:52:32 10:52:34 11:52:34 9:31:02 9:12:58 9:57:44 9:36:08 8:07:02 8:55:10 10:12:46 5/10/85 6/07/85 8/02/85 8/30/85 9/09/85 9/27/85 10/25/85 10/29/85 11/22/85 12/20/85 1/17/86 2/14/86 3/12/85 3/20/85 4/12/85 7/03/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 113
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Animal ID: 84D00397 Species: D Sex: FEMALE Group: CONTROLS

EYE SLIGHT
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EYE SLIGHT
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CORNEAL OPACITY LI WEIGHT (GRAMS) 240.0 250.0 265.0 269.0 270.0 273.0 273.0 281.0 291.0 281.0 285.0 259.0 OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 9:49:04 8:41:30 10:09:28 8:53:20 11:55:26 9:13:16 9:51:40 8:55:32 9:58:02 10:39:30 0:08:16 TIME 4/12/85 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/37/85 11/22/85 11/22/85 2/15/85 3/15/85 DATE

SLIGHT, PALLOR MARKED, SPLENIC MASS SIZE LARGE

PAGE 1140 DATE: 6/09/87 TIME: 14:40:130 EDS017 V4M11. INDIVIDUAL ANIMAL HISTORIES

--338

STUDY: 0083009	6.	CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-
COMPOUND:	ISOBUTYL 2-CYANOACRYLATE	ACRYLATE (IBC) IN MALE AND FEMALE RATS.
START DATE: 1/28/85	1/28/85	

(cont.):

Appendix F

TORY	
ANIMAL HISTORY	ANM
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AN	100
	Group: 100 UL/ANM
	FEMALE
	Sex:
,	Species: D
	Animal ID: 84000398
	ID:
	Animal

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		TAIN B	PAQUE	PAQUE	PAQUE	PAQUE	PAQUE ER SIZ MEDIUN	PAQUE TER SIZ DE SOF	PAQUE TER SIZ
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LIONS	RIGHT RIGHT RIGHT RIGHT RIGHT	RIGHT RIGHT	RIGHT	RIGHT	RIGHT	RIGHT LEFT E	RIGHT	RIGHT	RIGHT
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OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL CORNEAL CORNEAL CORNEAL	CORNEAL CORNEAL PROLAPSE	CORNEAL	CORNEAL	CORNEAL	CORNEAL PROLAPSE INTRABE	CORNEAL INTRAABC	CORNEAL INTRABE SUBCUTAN	CORNEAL INTRAABC SUBCUTAN
WEIGHT (GRAMS)	220.0 229.0 242.0 257.0	263.0 268.0	269.0	279.0	282.0	290.0	296.0	292.0	260.0
OPERATOR	0000337 0000337 0000337 0000337	0000337 0084799	0000337	0000337	0072808	0000337	0000337	0000337	0000337
TIME	10:39:52 10:08:42 9:49:34 9:06:04	8:53:46 10:23:20	11:55:52	9:13:36	9:55:04	8:55:46	9:58:22	9:39:14	7:50:56 0000337
DATE	2/15/85 3/15/85 4/12/85 5/10/85 6/07/85	7/03/85 8/02/85	8/30/85	9/27/85	10/25/85	11/22/85	12/20/85	1/11/86	2/14/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE AC
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 115 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00399 Species: D Sex: FEMALE Group: 10 UL/ANM

MEIGHT

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

							MARKED MARKED
CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS RIGHT EYE MODERATE CONTINUATUTES DIGHT EYE MONEDATE		CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE MODERATE NORMAL	CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE SLIGHT			CONJUNCTIVITIS LEFT EYE MARKED Normal	NORMAL EMACIATED MARKED, PALLOR MARKED, ANOREXIA MARKED EMACIATED MARKED, PALLOR MARKED, ANOREXIA MARKED
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0000337	0000337	00000337 00000337 00000337	0000337 0000337	0034567	0000337 0072808	0002920 0000337	0000337 0000337 0000337
8:23:50	8:09:42 9:50:02	9:06:32 8:06:30 7:38:18	10:10:16	10:25:00 11:57:10	9:15:04 9:56:42	10:16:00 8:57:34	10:00:40 11:15:22 9:16:40
2/15/85 3/11/85	1/20/85 1/20/85 1/12/85	5/10/85 5/21/85 5/30/85	6/07/85 7/03/85	8/02/85 8/30/85	9/27/85 0/25/85	0/29/85	12/20/85 12/28/85 12/29/85

STUDY: 0083009	•		CARC
COMPOUND:	ISOBUTYL	ISOBUTYL 2-CYANOACRYLATE	¥
START DATE:	1/28/85		

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00400 Species: D Sex: FEMALE Group: 100 UL/ANM

	CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT, STAIN YELLOW PERIANAL SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY BOTH EYE SLIGHT, INTRAABOMINAL MASS VENTRAL TO LIVER SIZE LARGE, CORNEAL OPACITY BOTH EYE SLIGHT,
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WEIGHT (GRAMS)	256.0 257.0 238.0 273.0 286.0 295.0 297.0 306.0 316.0 315.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	10:40:50 8:50:12 10:09:22 9:50:38 9:07:08 10:10:52 8:55:28 11:57:30 9:57:00 8:57:50 10:00:52
DATE TI	2/15/85 2/27/85 3/11/85 3/15/85 4/12/85 6/07/85 6/07/85 6/07/85 10/25/85 11/22/85 11/22/85 12/20/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (I START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 117
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00401 Species: D Sex: FEMALE Group: 100 UL/ANM

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS

TIME

DATE

NORMAL CONJUNCTIVITIS RIGHT EVE MODERATE.CONJUNCTIVITIS LEFT EVE SLIGHT		CONJUNCTIVITIS RIGHT EYE SLIGHT	CONJUNCTIVITIS BOTH EYE SLIGHT	CONJUNCTIVITIS RIGHT EYE MODERATE, CONJUNCTIVITIS LEFT EYE SLIGHT	CONJUNCTIVITIS BOTH EYE MODERATE,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CONJUNCTIVITIS BOTH EYE MODERATE,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE, STAIN BROWN	NOSE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CONJUNCTIVITIS BOTH EYE MARKED,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	BOTH	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL		INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CONJUNCTIVITIS BOTH EYE, INTRAABDOMINNAL MASS VENTRAL TO LIVER SIZE MEDIUM	CONJUNCTIVITIS RIGHT EYE MARKED,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	STAIN URINE PERIANAL MODERATE, CONJUNCTIVITIS RIGHT EYE MARKED	INTRABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	CONJUNCTIVITIS BOTH EYE MARKED, STAIN YELLOW PERIANAL MODERATE,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM				INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM	MASS
212.0		223.0	231.0	238.0			247.0				248.0		253.0		252.0		263.0	264.0				263.0		266.0	;	268.0	0 646	0.72
0000337	0000337	0000337	0000337	0000337	0000337		0000337		0000337		0084799		0034567		0000337		0000337	0072808		0002920		0000337		0084799	1	0000337	7550000	
10:41:12							10:11:18		7:28:38		8:55:56		10:26:32		11:58:42		9:16:22	9:58:12		10:17:14		8:58:52		10:01:36		9:43:46	7.50.40	
2/15/85	3/11/85	3/15/85	4/12/85	5/10/85	5/21/85		6/01/85		6/18/85		7/03/85		8/02/85		8/30/85		9/21/85	10/25/85		10/29/85		11/22/85		12/20/85	,	1/11/86	2/14/96	98/67/7

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00403 Species: D Sex: FEMALE Group: CONTROLS

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL EMACIATED MODERATE, CONJUNCTIVITIS BOTH EYE MARKED, EUTHANIZED MODERATE SLIGHT CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS BOTH EYE MODERA: CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT NORMAL CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT NORMAL NORMAL NORMAL NORMAL NORMAL 220.0 218.0 225.0 232.0 236.0 252.0 262.0 265.0 278.0 272.0 238.0 209.0 209.0 263.0 0018478 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0072808 10:13:14 9:35:10 10:28:18 11:59:50 9:36:38 10:10:24 8:12:54 9:51:52 07:52 8:12:32 9:18:04 9:59:34 9:00:36 10:03:04 9:03:38 3/20/85 4/12/85 5/10/85 5/21/85 6/07/85 7/03/85 8/02/85 8/30/85 9/27/85 11/22/85 2/27/85 3/15/85 9/09/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 119
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

ANIMAL HISTORY

Group: CONTROLS Sex: FEMALE Species: D Animal ID: 84D00404

BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED
BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, TACHYPNEA BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE MODERATE MODERATE MODERATE BOTH EYE MARKED MARKED MARKED MARKED BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE EYE BOTH SLIGHT, CONJUNCTIVITIS SLIGHT, CONJUNCTIVITIS CORNEAL OPACITY BOTH EYE SLIGHT * No observations recorded. EXE EXE BOTH BOTH (GRAMS) CLINICAL OBSERVATIONS CORNEAL OPACITY B
CORNEAL OPACITY B
CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY B CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY SLIGHT 240.0 234.0 255.0 280.0 261.0 279.0 WE IGHT 219.0 270.0 OPERATOR 0000337 0000337 0000337 0000337 0034567 0000337 00000337 0000337 0000337 0000337 9:08:12 10:29:02 8:48:52 12:00:24 8:36:04 10:41:46 9:06:56 8:55:02 9:52:30 10:13:36 9:35:40 10:11:02 TIME 8/28/85 8/30/85 9/23/85 5/10/85 5/30/85 2/15/85 2/27/85 3/11/85 3/15/85 4/12/85 6/01/85 7/03/85 8/02/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal IL: 84D00406 Species: D Sex: FEMALE Group: 10 UL/ANM

(GRAMS) CLINICAL OBSERVATIONS WEIGHT OPERATOR 0000337 0000337 TIME 3/15/85 DATE

ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT, VAGINAL DISCHARGE BLOODY SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT
ITY BOTH EYE SLIGHT EYE SLIGHT, EUTHANIZED CORNEAL OPACITY RIGHT EYE SLIGHT CORNEAL OPACITY RIGHT EYE SLIGHT EYE SLIGHT BOTH OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY CORNEAL OPACITY CORNEAL OPACITY OPACITY OPACITY OPACITY OPACITY OPACITY CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL 234.0 242.0 246.0 255.0 259.0 274.0 273.0 283.0 279.0 250.0 0072808 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0000337 0000337 9:08:46 10:29:46 9:18:32 10:00:26 9:01:14 10:03:30 9:53:00 10:11:24 10:13:58 9:36:16 9:45:14 7/03/85 8/02/85 8/30/85 12/20/85 1/17/86 2/14/86 5/10/85 5/30/85 4/12/85 6/07/85 9/27/85 10/25/85 11/22/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 121 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00407 Species: D Sex: FEMALE Group: 10 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

	LARGE	ARGE	ARGE						
	SIZE	SIZE	SIZE LARGE				-	-	
jed.	THORAX	THORAX	LHORAX				SLIGHT	SLIGH	
recor	LEFT	LEFT	LEFT				TH EYE	T EYE	ı
Lions	MASS	MASS	MASS				IS BOTH	IS LEF	
serval	NEOUS	NEOUS	NEOUS				TIVIT	TIVIT	
* No observations recorded.	UBCUTA	UBCUTA	UBCUTA	ORMAL	ORMAL	ORMAL	ONJUNC	ONJUNC	
*	_	-	_	z	_	_	•	_	1
	312.0	303.0	297.0	284.0	274.0	262.0		253.0	
0000337	0084799	0000337	0000337	0000337	0000337	0000337	0078478	0000337	
7:42:36	10:30:08	9:37:18	10:14:14	9:00:6	9:53:48	10:11:48	9:08:26	10:42:34	
1/16/85	3/02/85	7/03/85	6/07/85	5/10/85	1/12/85	3/15/85	2/27/85	2/15/85	
	10:30:08 0084799 312.0	9:37:18 0000337	10:14:14 0000337 297.0	9:09:56 0000337	9:53:48 0000337	10:11:48 0000337 262.0	9:08:26 0078478	10:42:34	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (I START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00409 Species: D Sex: FEMALE Group: CONTROLS

	EYE SLIGHT		SLIGHT	SLIGHT		EYE MODERATE	EYE MODERATE	EYE MODERATE			SLIGHT	SLIGHT	SLIGHT				SLIGHT
	KES		EYE S	EYE S		KE Y	Z Z	3			EXE	EYE	EYE				EXE
	вотн Е		BOTH E	BOTH E		BOTH E	BOTH E	BOTH E			BOTH EYE	BOTH	BOTH				RIGHT
	EYE SLIGHT, CONJUNCTIVITIS		SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS		EYE SLIGHT, CONJUNCTIVITIS	EYE SLIGHT, CONJUNCTIVITIS	EYE SLIGHT, CONJUNCTIVITIS			SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS	SLIGHT, CONJUNCTIVITIS				SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT, E
	<u>0</u>		<u>S</u>	ខ្ល		8	S	S		F	T, C	J,C	Ţ,	H	E	H	D,T
	SLIGHT	SLIGHT	SLIGHT	SLIGHT	EYE SLIGHT	SLIGHT	SLIGHT	SLIGHT	EYE SLIGHT	EYE SLIGHT	SLIGH		٠,	SLIGHT	SLIGHT		
	EXE	EYE	EYE	EYE	EYE	EXE	EYE	EXE	EXE	EYE	EYE	EXE	EYE	EXE	EYE	EYE	EYE
LIONS	BOTH	BOTH		LEFT	LEFT	LEFT	LEFT	LEFT	LEFT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT	RIGHT
OBSERVA	CORNEAL OPACITY	CORNEAL OFACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY	CORNEAL OPACITY
(GRAMS) CLINICAL OBSERVATIONS	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL	CORNEAL
	219.0	230.0		233.0	238.0		244.0	249.0	262.0	259.0		269.0	264.0	268.0	271.0	271.0	247.0
OPERATOR	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0034567	0000337	0000337	0000337	0072808	0000337	0000337	0000337	0000337
TIME	10:42:54	10:13:06	8:15:20	9:54:12	9:10:08	7:45:04	10:16:52	9:39:10	10:31:44	12:01:40	9:39:00	9:18:58	10:00:48	9:01:30	10:03:42	9:45:28	8:02:48
DATE	2/15/85	3/11/85	3/20/85	4/12/85	5/10/85	5/30/85	6/01/85	7/03/85	8/02/85	8/30/85	9/09/85	9/27/85	10/25/85	11/22/85	12/20/85	1/11/86	2/14/86

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STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 123 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Animal ID: 84D00410 Species: D Sex: FEMALE Group: CONTROLS

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT
SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT
R R R R R R R R R R R R R R R R R R R
RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT RICHT
0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY 0PACITY
CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL
212.0 220.0 220.0 236.0 238.0 251.0 251.0 261.0 261.0 261.0 261.0 261.0
0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
10:43:14 10:13:32 9:55:02 9:10:32 10:17:20 9:39:38 10:32:40 12:02:46 9:19:16 9:19:16 9:01:50 9:45:44 8:04:08
2/15/85 3/15/85 4/12/85 5/10/85 6/07/85 1/03/85 8/02/85 8/30/85 11/22/85 11/22/85 11/22/85

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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00411 Species: D Sex: FEMALE Group: 100 UL/ANM

							ISTULA	FISTULE			FISTULA SMALL	FISTULA SMALL								SMALL			
					MEDIUM	MEDIUM	MEDIUM, PERITONEAL FISTULA	MEDIUM, PERITONEAL FISTULE	SMALL,	SIZE LARGE	MEDIUM, PERIVAGINAL FISTULA SMALL	MEDIUM, PERIVAGINAL FISTULA SMALL	SMALL,		SMALL,		SMALL	AL FISTULA SMALL	SMALL,	MASS LEFT SIDE SIZE		SMALL,	MEDIUM, EUTHANIZED
					AL TO LIVER SIZE						AL TO LIVER SIZE !	AL TO LIVER SIZE !	AL TO LIVER SIZE :	SMALL	AL TO LIVER SIZE :	SMALL	AL TO LIVER SIZE :	E SMALL, PERIVAGIN	AL TO LIVER SIZE :	E SMALL, INGUINAL I	ORAX SIZE SMALL,	AL TO LIVER SIZE	PERIVAGINAL SIZE
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	NORMAL	NORMAL	NORMAL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	INTRABBOMINAL MASS VENTRAL TO LIVER SIZE	ITRAABDOMINAL MASS VENTR	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	PERIVAGINAL GLAND FISTULA VENTRAL ABDOMEN	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	ITRAABDOMINAL MASS VENTR	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE	PERIVAGINAL FISUTULA SIZE SMALL	INTRAABBOMINAL MASS VENTRAL TO LIVER SIZE SMALL,	PERIVAGINAL FISTULA SIZE SMALL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL	SUBSCAPULAR MASS LEFT SIDE SMALL, PERIVAGINAL FISTULA SMALL	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL,	SUBSCAPULAR MASS LEFT SIDE SMALL, INGUINAL MASS LEFT SIDE SIZE SMALL	SUBCUTANEOUS MASS LEFT THORAX SIZE SMALL,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL,	CUTANEOUS MASS FISTULATED PERIVAGINAL SIZE MEDIUM, EUTHANIZED
WEIGHT (GRAMS) CLI	249.0 NC		277.0 NC	285.0 NC	ñ	282.0 IN	î	284.0 IN	289.0 IN	Id		289.0 IN	292.0 IN	P	297.0 IN	P	295.0 IN	S	294.0 IN	S	271.0 St	a	ฮ
OPERATOR	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0000337	0084799		0000337	0000337	0072808		0000337		0084799		0000337		0000337		
TIME	10:43:34	10:14:04	9:55:38	9:10:52	8:17:14	10:17:46	7:34:56	9:40:08	10:33:06		12:03:10	9:19:44	10:01:38		9:02:06		10:04:08		9:46:00		8:06:34		
DATE	2/15/85	3/15/85	4/12/85	5/10/85	5/21/85	6/07/85	6/18/85	7/03/85	8/02/85		8/30/85	9/27/85	10/25/85		11/22/85		12/20/85		1/17/86		2/14/86		

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE A
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACKYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 125 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00412 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	OBSERVAT	TIONS
2/15/85	10:44:00	0000337	228.0	CORNEAL	CORNEAL OPACITY	CORNEAL OPACITY RIGHT EYE MARKED, EXOPHTHALMOS RIGHT EYE MARKED, CORNEAL OPACITY LEFT EXE MODERATE
3/15/85	10:14:18	0000337	229.0	CORNEAL	OPACITY	RIGHT EYE MARKED, EXOPHTHALMOS RIGHT EYE MARKED,
4/12/85	9:56:16	0000337	241.0	CORNEAL		
5/10/85	9:11:12	0000337	245.0			
6/01/85	10:18:52	0000337	258.0	CORNEAL		
7/03/85	9:41:46	9:41:46 0000337	259.0	CORNEAL		
8/02/85	10:37:08	0034567	271.0	CORNEAL		_
8/30/82	12:06:36	0000337	276.0	CORNEAL		
9/21/85	9:22:28	0000337	293.0	CORNEAL		
10/25/85	10:04:18	0072808	287.0	CORNEAL	OPACITY	
11/22/85	9:03:44	0000337	271.0	CORNEAL	CORNEAL OPACITY	
12/20/85	10:07:16	0000337	277.0	CORNEAL	OPACITY OPACITY	RIGHT EYE MARKED, EXOPHTHAL LEFT EYE MODERATE,
1/17/86	9:48:42	0000337	254.0	INTRAABL OPAQUE I	ENS BOTH	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE OPAQUE LENS BOTH EYES MODERATE,
1/21/86	9:52:44 0000337	0000337		DEATH	MATEUR !	INTRABBUMINAL MASS VENTRAL TO LIVER SIZE LARGE DEATH

PAGE

ANIMAL HISTORIES INDIVIDUAL (cont.): (In) Appendi

CARCINGENICITY BIOASSAY OF ISO3UTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS. ISOBUTYL 2-CYANOACRYLATE STUDY: 0083009 START DATE: COMPOUND:

ANIMAL HISTORY

Group: 100 UL/ANM FEMALE Sex: Species: D Animal ID: 84D00413

CLINICAL OBSERVATIONS

(GRAMS)

OPERATOR

TIME

DATE

WEIGHT

INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, PERIVAGINAL FISTULA SMALL CORNEAL OPACITY LEFT EYE SLIGHT, PERIVAGINAL MASS SIZE MEDIUM, INTRANBOOMINAL WASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY LEFT EYE SLIGHT, PERIVAGINAL MASS SUPURATING SIZE LARGE, SIZE SMALL CORNEAL OPACITY LEFT EXE SLIGHT, PERIVAGINAL FISTULA SIZE S CORNEAL OPACITY LEFT EXE SLIGHT, PERIVAGINAL FISTULA SMALL CORNEAL OPACITY LEFT EXE SLIGHT, PERIVAGINAL FISTULA SMALL CORNEAL OPACITY LEFT EYE SLIGHT, PERIVAGINAL FISTULA SMALL, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL. CORNEAL OPACITY LEFT EXE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVERSIZE MEDIUM SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT SLIGHT EYE EYE EYE exe exe exe LEFT LEFT LEFT LEFT LEFT LEFT LEFT CORNEAL OPACITY I CORNEAL OPACITY I CORNEAL OPACITY I CORNEAL OPACITY I CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY 264.0 267.0 273.0 276.0 283.0 288.0 280.0 287.0 276.0 0000337 0000337 0000337 0084799 0000337 0072808 0000337 0000337 0000337 0000337 0034567 0000337 0000337 0000337 9:24:00 10:04:48 9:04:06 9:57:24 9:11:48 10:19:24 10:08:26 10:25:42 12:52:46 10:37:36 9:42:36 12:07:02 9:42:10 10:14:42 6/07/85 7/03/85 8/02/85 4/12/85 5/10/85 8/30/85 9/09/85 1/03/86 1/16/86 12/20/85 9/27/85 10/25/85 3/15/85

		1/28/85	START DATE:
ACRYLAT	ISOBUTYL 2-CYANOACRYLATE	ISOBUTYL	COMPOUND:
CARCINOGEN		6	STUDY: 0083009

CINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 127 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00414 Species: D Sex: FEMALE Group: CONTROLS

								EDIUM	MEDIUM	LARGE				
								SIZE M	SIZE MI	SIZE LA				
								THORAX S	THORAX S	THORAX				
								RIGHT	RIGHT	RIGHT				
								MASS	MASS	MASS		6.3		
								SLIGHT, SUBCUTANEOUS MASS RIGHT THORAX SIZE MEDIUM	EYE SLIGHT, SUBCUTANEOUS	CORNEAL OPACITY RIGHT EYE SLIGHT, SUBCUTANEOUS MASS		SUBCUTANEOUS MASS RIGHT SIDE THORAX SIZE LARGE		
		٠, .	SLIGHT		SLIGHT	SLIGHT	SLIGHT	SLIGHT,	SLIGHT,	SLIGHT,	SLIGHT,	IDE THOR	SLIGHT,	
			EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	EYE	HT S1	EYE	
TONS	RIGHT	RIGHT	RIGHT	RIGHT	S RIG	RIGHT								
OBSERVAT	OPACITY	OPACITY	OPACITY	OPACITY	EOUS MAS	OPACITY								
WEIGHT ERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL OPACITY RIGHT	CORNEAL	CORNEAL OPACITY RIGHT EYE SLIGHT,	SUBCUTAN	CORNEAL OPACITY RIGHT EYE SLIGHT,	
WEIGHT (GRAMS)	227.0	242.0	252.0	252.0	259.0	264.0	273.0		272.0	275.0	281.0			
OPERATOR	0000337	0000337	0072808	0000337	0000337	0000337	0034567	0000337	0084799	0000337	0072808		0000337	
TIME	10:44:36	10:15:04	8:35:34 9:58:00	9:12:26	10:19:42	9:43:04	10:37:58	8:53:46	12:07:32	9:25:00	10:05:40		11/19/85 12:54:56 0000337	
DATE	2/15/85	3/15/85	4/10/85 4/12/85	5/10/85	6/01/85	7/03/85	8/02/85	8/28/85	8/30/85	9/27/85	10/25/85		11/19/85	

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
STARI DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00415 Species: D Sex: FEMALE Group: 10 UL/ANM

WEIGHT
DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

CONJUNCTIVITIS BOTH EYE MARKED
CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE PALLOR HEAD TAIL FRONT LEG HIND LEG MARKED CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS RIGHT EYE MARKED CONJUNCTIVITIS BOTH EYE MARKED CONJUNCTIVITIS BOTH EYE MODERATE CONJUNCTIVITIS BOTH EYE MODERATE * No observations recorded. NORMAL 244.0 236.0 239.0 254.0 254.0 0000337 0000337 0000337 0000337 0084799 0000337 0000337 0000337 0000337 0000337 0000337 0010186 0010186 9:12:42 8:21:18 8:23:00 7:50:24 9:43:34 9:12:12 8:05:12 8:59:34 10:15:24 9:58:28 8:29:30 4/12/85 5/10/85 5/21/85 5/21/85 5/30/85 6/18/85 7/03/85 2/15/85 3/11/85 3/15/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 129 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00416 Species: D Sex: FEMALE Group: 100 UL/ANM

	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT, INTRABBOOMINAL M.SS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY LEFT EYE SLIGHT, INTRABBOOMINAL MASS VENTRAL TO LIVER SIZE LARGE, STAIN YELLOW PERIANAL WODERATE
	EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT ENTRAL TO EYE SLIGHT
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT INTRAABOOMINAL MASS VENTRAL TO I CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO I CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO I CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABOOMINAL MASS VENTRAL TO I
CLINICAL	CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL CORNEAL INTRAABD CORNEAL INTRAABD
WEIGHT (GRAMS)	220.0 224.0 226.0 231.0 229.0 243.0 247.0 248.0 256.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	10:45:12 10:15:48 9:13:00 10:20:32 9:44:02 10:38:26 12:09:00 9:26:32 13:23:42 10:07:16
DATE	2/15/85 3/15/85 3/15/85 4/12/85 5/10/85 6/07/85 7/03/85 8/30/85 9/27/85 10/16/85

PAGE 1300 DATE: 6/09/87 TIME: 14:40:130 EDS017 V4M11

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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 START DATE: COMPOUND:

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00417

INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE LARGE. INTRAMBDOMINAL MASS VENTRAL TO LIVER SIZE LARGE, CORNEAL OPACITY LEFT EYE CORNEAL OPACITY LEFT EYE MODERATE, INTRAABDOMINAL MASS SIZE LARGE CORNEAL OPACITY LEFT EYE MODERATE OPACITY LEFT EYE MODERATE, SPLENIC MASS SIZE MEDIUM INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL CORNEAL OPACITY LEFT EYE MODERATE, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL OPACITY LEFT EYE MODERATE, CORNEAL OPACITY LEFT EYE MODERATE, EYE MODERATE CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT, CORNEAL OPACITY LEFT EYE SLIGHT SLIGHT EYE SLIGHT EYE SLIGHT EYE SLIGHT CORNEAL OPACITY LEFT CORNEAL OPACITY LEFT LEFT CLINICAL OBSERVATIONS OPACITY OPACITY CORNEAL CORNEAL SLIGHT (GRAMS) 247.0 253.0 263.0 266.0 280.0 281.0 272.0 279.0 292.0 271.0 296.0 275.0 258.0 WEIGHT OPERATOR 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0084799 0084799 0000337 0084799 0034567 0000337 0000337 0000337 0072808 0000337 9:07:02 10:09:52 9:50:44 9:13:22 8:24:30 9:44:36 10:38:56 9:29:36 10:20:54 12:09:38 9:26:52 13:41:16 10:08:06 8:11:00 10:16:18 10:45:34 10:00:24 TIME 11/22/85 8/02/85 10/16/85 10/25/85 6/05/85 6/07/85 8/30/85 9/27/85 4/12/85 5/10/85 5/21/85 7/03/85 1/17/86 2/14/86 2/15/85 3/15/85 DATE

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, EUTHANIZED

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 131
DATE: 6/09/87
TIME: 14:40:13
EDS017 V4M11

Animal ID: 84D00418 Species: D Sex: FEMALE Group: 10 UL/ANM

INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM CORNEAL OPACITY LEFT EYE SLIGHT, INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE MEDIUM, SPLENIC MASS SIZE LARGE T LEFT EYE SLIGHT
Y LEFT EYE SLIGHT
F LEFT EYE SLIGHT
F LEFT EYE SLIGHT
F LEFT EYE SLIGHT
F LEFT EYE SLIGHT
F LEFT EYE SLIGHT SLIGHT SLIGHT CORNEAL OPACITY LEFT EYE SLIGHT * No observations recorded. (GRAMS) CLINICAL OBSERVATIONS CORNEAL OPACITY L
CORNEAL OPACITY L
CORNEAL OPACITY L
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CORNEAL OPACITY L
CORNEAL OPACITY L
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CORNEAL OPACITY L
CORNEAL OPACITY L
CORNEAL OPACITY L CORNEAL OPACITY CORNEAL OPACITY 218.0 227.0 244.0 234.0 245.0 254.0 262.0 274.0 271.0 270.0 280.0 WEIGHT 255.0 OPERATOR 0000337 0000337 0034567 0000337 0072808 0000337 0000337 0000337 0000337 0000337 0000337 12:10:22 9:28:00 10:09:46 9:45:50 9:08:30 10:10:58 9:51:46 10:16:36 10:00:44 9:13:38 10:22:18 12:31:24 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 1/11/86 2/15/85 3/15/85 11/22/85 4/12/85 10/25/85 1/11/186

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ANIMAL HISTORIES INDIVIDUAL (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 100 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00419

EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MARKED
EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MARKED, STAIN CLEAR MODERATE MARKED MARKED MARKED MARKED MARKED MARKED TY RICHT EXE SLIGHT, CONJUNCTIVITIS RIGHT EYE MAI
TY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MAI
TY RIGHT EXE SLIGHT, CONJUNCTIVITIS RIGHT EYE MAI
TY RIGHT EXE SLIGHT, CONJUNCTIVITIS RIGHT EYE MAI
TY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MAI
TY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MAI
TY RIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE MOI
TY RIGHT EYE SLIGHT
TY RIGHT EYE SLIGHT
TY RIGHT EYE SLIGHT EYE SLIGHT RIGHT RIGHT RIGHT CLINICAL OBSERVATIONS CORNEAL OPACITY R
CORNEAL OPACITY R
CORNEAL OPACITY R
CORNEAL OPACITY R
CORNEAL OPACITY R
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CORNEAL OPACITY R
CORNEAL OPACITY R CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY CORNEAL OPACITY PERIANAL SLIGHT (GRAMS) 226.0 231.0 237.0 245.0 252.0 261.0 271.0 276.0 278.0 284.0 287.0 217.0 WEIGHT OPERATOR 00000337 00034567 00000337 00000337 0072808 00000337 00000337 0000337 0000337 0000337 0000337 10:46:10 9:02:00 10:40:38 12:10:46 9:46:46 10:12:04 9:53:06 8:14:50 10:10:20 9:08:44 10:16:56 10:01:20 9:13:58 10:23:48 9:46:14 TIME 5/10/85 6/07/85 7/03/85 8/02/85 8/30/85 9/09/85 10/25/85 11/22/85 12/20/85 2/15/85 3/11/85 4/12/85 3/15/85 9/27/85

SLIGHT SLIGHT, CONJUNCTIVITIS LEFT EYE SLIGHT SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE, EUTHANIZED RIGHT RIGHT OPACITY CORNEAL

1/17/86 2/14/86

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IBC) IN B START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

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Animal ID: 84D00420 Species: D Sex: FEMALE Group: CONTROLS

CONJUNCTIVITIS BOTH EYE SLIGHT STAIN YELLOW PERIANAL SLICHT NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS NORMAL NORMAL 246.0 253.0 253.0 254.0 276.0 277.0 281.0 283.0 288.0 288.0 288.0 244.0 238.0 0000337 0078478 0000337 0000337 0000337 0000337 0000337 0072808 0000337 0000337 0000337 0000337 0034567 0000337 9:14:42 9:03:12 10:17:40 8:22:26 10:02:00 9:14:40 10:40:54 10:10:50 9:28:38 10:10:50 9:03:38 9:23:38 10:46:38 TIME 2/15/85 2/27/85 3/11/85 3/11/85 3/15/85 4/12/85 5/10/85 6/07/85 1/03/85 8/02/85 10/25/85 11/22/85 11/22/85 11/26 DATE

HISTORIES INDIVIDUAL ANIMAL (cont.): Appendix

ISOBUTYL 2-CYANOACRYLATE 1/28/85 STUDY: 0083009 COMPOUND: START DATE:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00422 WEIGHT
OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

CONJUNCTIVITIS LEFT EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT CONJUNCTIVITIS LEFT EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE SLIGHT, CORNEAL OPACITY BOTH EYE SLIGHT CONJUNCTIVITIS BOTH EYE MARKED, CORNEAL OPACITY BOTH EYE SLIGHT, DEHYDRATED MARKED

* No observations recorded. 244.0 247.0 224.0 0000337 0000337 0000337 0000337 0000337 10:46:54 10:18:04 10:03:16 9:54:04 13:43:56 2/15/85 3/15/85 4/12/85 5/06/85 5/01/85

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEM4LE RATS.

ANIMAL HISTORY

PAGE 135 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Species: D Sex: FEMALE Group: 100 UL/ANM Animal ID: 84D00423

WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS TIME DATE

CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT, TACHYPNE! MARKED	CORNEAL OPACITY LEFT EYE SLIGHT, TACHYPNEA SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT	CORNEAL OPACITY LEFT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE LARGE
237.0		240.0		270.0	244.0	
_	0000337	0000337	0072808	0000337	0000337	
10:47:26	9:04:12	10:18:26	8:57:20	10:03:56	9:14:48	
2/15/85	3/11/85	3/15/85	4/10/85	4/12/85	5/10/85	

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INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Sex: FEMALE Group: 100 UL/ANM Animal ID: 84D00424 Species: D

	EYE SLIGHT EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS RIGHT EYE SLIGHT EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MODERATE EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE EYE SLIGHT, CONJUNCTIVITIS LEFT EYE MODERATE EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED EYE SLIGHT, CONJUNCTIVITIS BOTH EYE MARKED, DEHYDRATED
OPERATOR (GRAMS) CLINICAL OBSERVATIONS	CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE CORNEAL OPACITY RIGHT EYE SIGHT, PROSTRATE * No observations recorded.
CLINICAL	CORNEAL OPACITY CORNEAL OPACITY
WEIGHT (GRAMS)	242.0 251.0 257.0 264.0 269.0 269.0 268.0 258.0 257.0 221.0
OPERATOR	0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337
TIME	10:47:44 9:16:20 9:05:20 10:19:06 10:04:24 9:17:44 8:37:10 7:55:50 10:24:44 9:47:08 10:11:12 9:47:58
DATE	2/15/85 2/27/85 3/11/85 3/11/85 3/11/85 3/15/85 6/07/85 6/07/85 6/07/85 9/09/85 9/09/85 10/25/85

INDIVIDUAL ANIMAL HISTORIES (cont.): **[**24 Appendix

ISOBUTYL 2-CYANOACRYLATE STUDY: 0083009 START DATE: COMPOUND:

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

6/09/87 TIME: 14:40:13 EDS017 V4M11

DATE:

ANIMAL HISTORY

Group: 10 UL/ANM Sex: FEMALE Species: D Animal ID: 84D00425

CONJUNCTIVITIS RIGHT EYE MODERATE, STAIN URINE PERIANAL MODERATE
CONJUNCTIVITIS RIGHT EYE MODERATE, STAIN URINE PERIANAL MODERATE
CONJUNCTIVITIS RIGHT EYE MODERATE, STAIN URINE PERIANAL SLIGHT
CONJUNCTIVITIS RIGHT EYE MODERATE, STAIN URINE PERIANAL SLIGHT
CONJUNCTIVITIS RIGHT EYE MODERATE, STAIN URINE PERIANAL MODERATE, ROUGH COAT CONJUNCTIVITIS BOTH EYE MARKED
CONJUNCTIVITIS BOTH EYE MARKED
CONJUNCTIVITIS LEFT EYE MARKED
CONJUNCTIVITIS BOTH EYE MARKED, CONJUNCTIVITIS RIGHT EYE SLIGHT
CONJUNCTIVITIS BOTH EYE MARKED, SCAB RIGHT EAR SLIGHT
CONJUNCTIVITIS BOTH EYE MARKED, SCAB RIGHT EAR SLIGHT
CONJUNCTIVITIS BOTH EYE MARKED
CONJUNCTIVITIS BOTH EYE SLIGHT
CONJUNCTIVITIS BOTH EYE SLIGHT
CONJUNCTIVITIS BOTH EYE SLIGHT
CONJUNCTIVITIS ROTH EYE SLIGHT
CONJUNCTIVITIS ROTH EYE SLIGHT
CONJUNCTIVITIS RIGHT EYE MARKED, STAIN YELLOW PERIANAL SLIGHT
CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE MODERATE CONJUNCTIVITIS RIGHT EYE SLIGHT CONJUNCTIVITIS RIGHT EYE MODERATE * No observations recorded CLINICAL OBSERVATIONS MARKED WEIGHT (GRAMS) 208.0 211.0 214.0 249.0 246.0 231.0 221.0 220.0 231.0 249.0 248.0 OPERATOR 0034567 0000337 0000337 0072808 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0000337 0002920 0000337 0000337 0000337 0000337 0000337 0000337 0000337 9:49:02 9:47:48 9:09:28 7:57:10 10:19:38 9:18:06 10:25:06 8:35:32 9:47:36 10:41:46 9:04:20 12:12:06 10:48:00 10:06:00 8:38:40 10:16:04 12:34:58 TIME 6/07/85 6/18/85 7/03/85 8/02/85 8/30/_3 9/09/85 9/27/85 11/22/85 2/15/85 3/15/85 1/17/86 5/21/85 5/30/85 4/12/85 5/10/85 8/28/85 0/25/85 10/30/85 1/17/86 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (IESTART DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00426 Species: D Sex: FEMALE Group: 10 UL/ANM

							INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, CONJUNCTIVITIS RIGHT EYE		INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL, CONJUNCTIVITIS RIGHT EYE		IVER SIZE SMALL		
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL	STAIN YELLOW PERIANAL SLIGHT	STAIN CLEAR PERIANAL SLIGHT NORMAL	NORMAL	NORMAL	NORMAL	INTRAABDOMINAL MASS VENTRAL TO L	SLIGHT	INTRAABDOMINAL MASS VENTRAL TO L	CONJUNCTIVITIS RIGHT EYE SLIGHT,	INTRAABDOMINAL MASS VENTRAL TO LIVER SIZE SMALL	SUSPECTED LEUKEMIA	* No observations recorded.
WEIGHT (GRAMS)	210.0		216.0	227.0	230.0	237.0			242.0	246.0			
OPERATOR	0000337	00/84/8	0000337	0000337	0000337	0000337	0084799		0000337	0034567		0000337	0000337
TIME	10:48:18	9:18:34	10:20:02	10:06:48	9:19:28	10:25:32	8:36:38		9:48:08	10:42:08		9:06:38	12:32:10
DATE	2/15/85	2/2//85	3/15/85	4/12/85	5/10/85	6/01/85	6/18/85		7/03/85	8/02/85		8/28/85	8/28/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

PAGE 139 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

ANIMAL HISTORY

Animal ID: 84D00427 Species: D Sex: FEMALE Group: CONTROLS

DATE	TIME	OPERATOR	WEIGHT (GRAMS)	CLINICAL OBSERVATIONS
2/15/85	10:48:48	0000337	198.0	1
3/11/85	9:07:38	0000337	201.0	CONJUNCTIVITIS BOTH EYE MODERATE, STAIN CLEAR PERIANAL SLIGHT CONJUNCTIVITIS BOTH EYE MODERATE
3/20/85	8:26:34	0000337		RIGHT
4/12/85	10:07:10	0000337	211.0	CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE
5/10/85	9:19:44	0000337	215.0	CONJUNCTIVITIS BOTH EYE MODERATE
5/21/85	8:40:50	0000337		CONJUNCTIVITIS BOTH EYE MARKED
6/01/85	10:25:52	0000337	220.0	CONJUNCTIVITIS BOTH EYE SLIGHT
6/18/85	8:40:04	0000337		CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE
7/03/85	9:50:08	0000337	227.0	CONJUNCTIVITIS RIGHT EYE MARKED, CONJUNCTIVITIS LEFT EYE MODERATE
8/02/85	10:45:12	0034567	238.0	CONJUNCTIVITIS BOTH EYE SLIGHT
8/30/85	12:12:36	0000337	243.0	CONJUNCTIVITIS BOTH EYE SLIGHT
9/09/85	9:49:42	0000337		NORMAL
9/27/85	9:29:50	0000337	253.0	CONJUNCTIVITIS BOTH EYE SLIGHT
10/25/85	10:16:38	0072808	254.0	CONJUNCTIVITIS BOTH EYE SLIGHT
10/30/85	9:49:26	0002920		CONJUNCTIVITIS BOTH EYE SLIGHT, IRRITABLE MODERATE
11/22/85	9:10:14	0000337	262.0	NORMAL
12/20/85	10:13:10	0000337	252.0	NORMAL
1/02/86	9:31:04	0000337		PERIVAGINAL FISTULA BLEEDING MODERATE
1/11/86	9:54:52	0000337	245.0	PERIVAGINAL FISTULA MODERATE
2/14/86	8:17:22	0000337	225.0	CONJUNCTIVITIS RIGHT EYE MODERATE, PALLOR MODERATE,
				PERIVAGINAL MASS FISTULATED SIZE MEDIUM, EUTHANIZEU

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLATE (I)
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RAIS.

ANIMAL HISTORY

Animal ID: 84D00428 Species: n Sex: FEMALE Group: CONTROLS

EYE MODERATE, XYPHOID PROTUBERANCE SLIGHT
EYE MODERATE, XYPHOID PROTUBERANCE SLIGHT
EYE MODERATE, XYPHOID PROTUBERANCE, FISTULA LOWER ABDOMEN
EYE MODERATE, XYPHOID PROTUBERANCE, FISTULA PROTUBERANCE
CORNEAL OPACITY BOTH EYE MODERATE, XYPHOID PROTUBERANCE, PERIVAGINAL FISTULA
CORNEAL OPACITY BOTH EYE MODERATE, XYPHOID PROTUBERANCE, PERIVAGINAL FISTULA,
VAGINAL PURULENCE CORNEAL OPACITY BOTH E CORNEAL OPACITY BOTH E CORNEAL OPACITY BOTH E CORNEAL OPACITY BOTH E CLINICAL OBSERVATIONS (GRAMS) 199.0 211.0 WEIGHT 212.0 OPERATOR 0000337 0000337 0084799 0072808 0000337 0000337 10:49:20 10:20:50 8:27:34 9:06:36 10:07:46 9:40:14 TIME 4/12/85 4/23/85 3/15/85 2/15/85 4/10/85 3/20/85 DATE

.

JUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

141

Animal ID: 84D00429 Species: D Sex: FEMALE Group: 10 UL/ANM

MODERATE, EUTHANIZED BOTH EYE MODERATE BOTH EYE MODERATE BOTH EYE MODERATE BOTH EYE MODERATE MODERATE MODERATE MODERATE EYE MODERATE EYE MODERATE MODERATE MODERATE MODERATE MODERATE BOTH EYE BOTH EYE BOTH EYE EYE BOTH EYE BOTH ВОТН BOTH BOTH BOTH CLINICAL OBSERVATIONS CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY BE CORNEAL OPACITY E CORNEAL OPACITY E CORNEAL OPACITY E CORNEAL OPACITY CORNEAL OPACITY (GRAMS) 225.0 227.0 237.0 236.0 256.0 251.0 264.0 274.0 283.0 280.0 274.0 263.0 WEIGHT OPERATOR 0000337 0000337 0000337 0034567 0000337 0000337 0000337 0000337 0000337 0000337 10:45:54 12:12:58 9:30:20 10:17:20 9:10:56 10:13:30 9:55:36 10:26:10 10:22:00 10:10:34 9:20:14 9:50:38 TIME 8/30/85 9/27/85 10/25/85 11/22/85 12/20/85 1/17/86 2/14/86 6/07/85 3/15/85 4/12/85 5/10/85 8/02/85 DATE

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE ACRYLAT
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00430 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

2/15/85 10:50:30 0000337 227.0 NORMAL 4/12/85 10:22:22 0000337 228.0 NORMAL 5/10/85 10:11:00 0000337 244.0 NORMAL 5/10/85 10:26:30 0000337 241.0 NORMAL 7/03/85 10:26:30 0000337 246.0 NORMAL 7/03/85 12:47:12 0069406 * No observations recorded.

INDIVIDUAL ANIMAL HISTORIES (cont.): Appendix F

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE
START DATE: 1/28/85

CARCINGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

PAGE 143 DATE: 6/09/87 TIME: 14:40:13 EDS017 V4M11

Sex: FEMALE Group: 100 UL/ANM

Species: D

Animal ID: 84D00431

		LARGE
		SIZE
		SHAPE
		IRREGULAR
	SLIGHT SLIGHT MODERATE SLIGHT	R ABDOMEN
'n	EYE EYE EYE	LOWE
TION	LEFT LEFT LEFT	MASS
WEIGHT OPERATOR (GRAMS) CLINICAL OBSERVATIONS	NORMAL CONJUNCTIVITIS LEFT EYE SLIGHT NORMAL CONJUNCTIVITIS LEFT EYE MODERAT CONJUNCTIVITIS LEFT EYE MODERAT NORMAL NORMAL	INTRAABDOMINAL MASS LOWER ABDOMEN IRREGULAR SHAPE SIZE LARGE
WEIGHT (GRAMS)	246.0 253.0 263.0 266.0 271.0 251.0	
OPERATOR	0000337 0000337 0000337 0000337 0000337	0000337
TIME	10:50:48 10:22:46 10:22:46 10:11:28 9:20:54 8:01:10 10:26:50	6:57:12
DATE	2/15/85 3/15/85 3/15/85 3/20/85 4/12/85 5/30/85 6/07/85	7/08/85

STUDY: 0083009
COMPOUND: ISOBUTYL 2-CYANOACRYLATE AC
START DATE: 1/28/85

CARCINOGENICITY BIOASSAY OF ISOBUTYL 2-CYANO-ACRYLATE (IBC) IN MALE AND FEMALE RATS.

ANIMAL HISTORY

Animal ID: 84D00432 Species: D Sex: FEMALE Group: 100 UL/ANM

DATE TIME OPERATOR (GRAMS) CLINICAL OBSERVATIONS

NORMAL * No observations
283.0
0000337 0084799
9:56:02
1/17/86 1/23/86

Appendix G:	GROSS NE	NECROPSY		OBSERVATIONS,	INCIDENCE SUMMARY	ARX	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 SPECIES: RATASISCHER-344	INCIDENCE REPORT FOR	SUMMARY	REPOR STUDY I	<u> </u>	DBSERVATIONS 755 OF STUDY	1 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	PRINTED: 21-NOV-89 PAGE: 1
MOTE: CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP: NO. IN GROUP:		CTLS 13	MALES 16 2 2 27 16			10/2 LES - 19	
WHOLE BODY NO GROSS LESIONS RECOGNIZED POST MORTEM AUTOLYSIS. STAINED HAIR FAT GENERALLY YELLOW THIN WATERY BLOOD JAUNDICED MINIMAL BODY FAT TOTAL:				000-07			
ADREMAL EMLARGED, UNILATERALLY DISCOLORATION EMLARGED, BILATERALLY TOTAL:		-00-	0000		0-0-	00	
PERICARDIAL CAV. \$LOOD-TINGED FLUID		00		-	0 0	00	
CECUM MASS(ES)ADHERED TO PERITONEAL WALLTOTAL:		000	2 - 1 - 0		-0-	000	
COLON ADMERED TO PERITONEAL WALL		00	00	_		00	
PLEURAL CAVITY FLUID-FILLED REMOTHROAX GROWTH(S) / MASS(ES)			2 0 0 0			0000	
PERITOMEAL CAV. ADHESION(S) FLUID-FILLED RED FOCI IN BODY FAT ROUGHEMED PERITOMEAL SURFACE FRAMK BLOOD PRESENT GROWIN(S) / MASS(ES)		999999	24-0-020		0+0000+	0 M O O O M O	

Appendix G (cont.	.): GROSS	NECROPSY	SY OBSERVATIONS,	IS, INCIPENCE	SUMMARY
E OF RECO. CA	ez	IDENCE SUMMARY REPORT FOR G STUDY NUMBER: RT FOR UNSCHEDULED DEATHS:	INCIDENCE SUMMARY REPORT FOR GROSS NECROPSY OBSERVATIONS STUDY NUMBER: GLP83009 EPORT FOR UNSCHEDULED DEATHS: DAY 374 TO DAY 755 OF STUDY STEINY START DATE: 21.1AM.RL	BSERVATIONS PRII (755 OF STUDY STUDY STUDY 1798- CHRONIC/2	PRINTED: 21-NOV-89 PAGE: 2 NIC/2 VO CARCINOGENIC
MOTE: CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP: NO. IN GROUP:		CTLS 1	25	- FENA CTLS 1 22 21	FEHALES 21 19
DIAPHRAGM GROWIN(S)/WASS(ES)		00	- 0	-	00
		0000			0000
EAR MECROSISTOTAL:			_	••	00
CORNEAL OPAIC M. CORNEAL OPACITY CORNEAL OPACITY ROUGH CORNEAL SURFACE STAINED HAIR CRUSTY MATERIAL, PERIORBITAL HYPOPION CORNEAL VASCULARIZATION		0 - 0 0 - 0 0 7 0 0 0 7 0 0 0 7 0 0 0 7 0	000000	0 0 0 0 0 C - W	0+00w004
MEART MODULE		00		00	00
GROUTH(S) / MASS(ES)		-00-		00	0000
DEJUNUM DISTENDED		m		000-0-	00000
KIDNEY CYST		0	-	0	0

DIV OF RES SUPP, PATM SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129 REPORT SPECIES: RAT/FISCHER-344 SIU	STUR STUDY START DATE:	STUD EDULED DATE:	SIDDY NUMBER: GLF83UUY REPORT FOR UNSCHEDULED DEATHS: DAY 374 TA STUDY START DATE: 23-JAN-84	0 DAY 755 OF	STUDY STUDY TYPE: CHRO	HRONIC/2	STUDY STUDY STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
MOTE: CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP: NO. IN GROUP:	CTLS 13	MALES 1 27	: ~ 5 5		FEM CTLS 22 2	FEMALES 1 21	 19
KIDNEY FIRM UNITE MASS GRANULAR SURFACE MEMORRHAGE PITTED SURFACE DISCOLORATION	00/4	02-046	0 2 0 - 7 0		0 M O O W O	0000mm	0 0 0 0 0 0 0
PROMINENT LOBULAR MARKINGS ENLARGED GRANULAR SURFACE SUOLLEM ADHESION(S) GROUN(S) DISCOLORATION NODULE(S)	-0-000N-0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	40W-7-400		NU40UOU-3	40 0 0 0 0 m - 98	v-vovovov
ENLARGED		8	000		•••	0	000
CONGESTED / RED HEMORRHAGE(S) DISCOLORATION		N-010	00NN		- O M 4	-00-	00mm
MAMMARY GLAND DISCOLORATIONTOTAL:			00	-		••	0 0
MAXILLA SOFT TISSUE MASS	::		• •	-	00	00	••
OVARIES PARA-OVARIAM CYST(S)	::	0	9	_		mm	
PITUITARY GLAND CYST(S)	:	-	0	_	0	0	0

oo) o xtousddv	(cont.): GROSS		NECROPSY		OBSERVATIONS,	INCIDENCE	S	SUMMARY
LETTERMAN ARMY INSTITUTE OF RESEA DIV OF RES SUPP, PAIN SERV GP PRESIDIO OF SAN FRANCISCO, CA 941	RCH 29	SUMMA	RY REP STUD EDULED	ORT FOR GROSS Y NUMBER: GLP DEATHS: DAY		VATIONS OF STUDY	•	PRINTED: 21-NOV-89 PAGE: 4
SPECIES: RAT/FISCHER-344		TART	DATE:	START DATE: 23-JAN-84			ON 1C/	
ANIMAL	SEX:		MALES	· · · · · · · · · · · · · · · · · · ·	-		FEMALES	
FROM GROUP(S): 5 GH	toup :	CTLS 13	1 27	2 16		CTLS 22 2	- £2	19
PITUITARY GLAND			:					
DISCOLORATION		n =	4 4			0 .	Ś	~ 0 u
GROUTH(S) / MASS(ES)		•	0			• c	v c	n =
KENORRHAGIC	• • • • • • • • • • • • • • • • • • • •	0	0	0 1			· –	• •
	• • • • • • • • • • • • • • • • • • • •	^	>	~		71	60	=
RECTUM MUCHOID DISCHARGE		0	0	0	_	•	0	. 6
10TAL:		•	0	0	-	-	0	0
		0	•	0	_	-	٥	O
TOTAL:		0	•	•	-	-		. 0
SM INTESTINE ADMERED TO MASS		0	0	•	_	c	•	
TOTAL:		•	0	•	-		. ~	. 0
NAME OF STREET STREET		(,					
ALOPEGIA		-	- 0	- 0		- 0	- 0	00
SUBCUTAMEOUS MASS		~ 0	~ 0	m o			N 0	mo
DISCOLORATION		O #	۰ ،	0 7		• •		
1 L		1	y	•		•	m	m
PROMINENT FIBROUS CAPSULE		0	-	0	_	0	0	o
ENLARGED (SPLENOMEGALY)FRACTURED		m c	∞ -	۰ ۵		o - c	•	•
GRANULAR SURFACE		-	- 0	. 0			,	-
GROWTH(S) / MASS(ES)		0	0	0	·		· -	. 0
DISCOLORATION		0 0	۰.				۰,	0
FIBROUS ADHESION(S)		9	- ~	- 0				- 0
TOTAL:		•	13	13	•	10		0
SUBCUT IS		c		c	-		,	,
TOTAL:		•		• •	-	••	- 0	
STOMACH								
GROWTH(S) / MASS(ES)		•	-	-	_	0	0	0

MOTE: CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP:	CTLS	MALES 1 2 27 14		CTLS	FEMALES	ES
STOWACH ADMERED TO MASS NODULE DISTRINGED TOTAL:	'		-	0000	-00-	
SEMIMAL VESICLE TRANSPARENT, SOFT, FLACCID	000	-0-		0	•	0
TAIL NECROSISTOTAL:	00		_	00	00	00
ATROPHIC / SMALL, UNILATERALLY GELATEMOUS CONSISTENCY EMLARGED GROWTH(S) / MASS(ES) ATROPHIC / SMALL, BILATERALLY DISCOLORATION	2 12 12 28 28 28 28 28 28 28 28 28 28 28 28 28	8 - 1 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9		0	. •	
ENLARGED	0-0-				0000	
TRACHEA FOOD STUFF PRESENTTOTAL:	00	00	_	00	00	00
URINARY BLADDER BLOOD WITHIN LUMEN	00	00	_	••		
POLYP POLYP DISTEMBED BLACK DISCOLORATION GROUTH(S)/MASS(S) TOTAL:	•	9		88	-00M4	2 - 0 - 0

Appendix G (cont.): GROSS NECROPSY OBSERVATIONS, INCIDENCE SUNDARRY LETTERNAM ARMY INSTITUTE OF RESEARCH INCIDENCE SUMMARY REPORT FOR GROSS NECROPSY OBSERVATIONS PRINTED: 21-NOV-89 DIV OF RES SUPP, PATM SERV GP PRESIDIO OF SAM FRANCISCO, CA 94129 REPORT FOR UNSCHEDULED DEATHS: DAY 374 TO DAY 755 OF STUDY SPECIES: RAI/FISCNER-344 SPECIES: RAI/FISCNER-344 NOTE: CTLS = CONTROLS AMIMAL SEX: FROM GROUP(S): 3 GROUP: FROM GROUP(S): 4 CTLS 1 2 FROM GROUP(S): 6 CTLS 1 19 PURULENT DISCHARGE: PURULENT DISCHARGE: THOUGH DISCHARGE THOUGH TO INCIDENT TO THE STANDARY REPORT FOR THE STA	FIONS, INCIDENCE SUMMARY DAY 755 OF STUDY STUDY TYPE: CHRONIC/2 YR CARCHMOGENIC FEMALES CTLS 1 2 22 21 19 0 1 0 0 1 0
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	NECROPSY CUMMARY REPORT I	OB OR GRO	, INCIDENCE SUMMARY ERVATIONS PRINTED: 21-NOV-89 PAGE: 1
PRESIDIO OF SAM FRANCISCO, CA 94129 SPECIES: RAT/FISCHER-344		~	STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP: NO. IN GROUP:	CTLS 1 44 23	39	
WHOLE BODY MO GROSS LESIONS RECOGNIZED	00	-	00
ADRENAL ENLARGED, UNILATERALLY DISCOLORATION TOTAL:	M-12	N-W	0 0 0
ADHESION(S)	0 0	-	
PERITOWEAL CAV. ADMESIOM(S)	0000	0 2 0 2	
DIAPHRAGM MERHIA TOTAL:	00	- 0	00
DUODENUM ADNERED TO LIVER GROWTH(S) / MASS(ES) THICKENED	0000		4000
EYES & OPTIC N. CORMEAL OPACITY LENS CATARACT MICROPINALMIA	0 M O M	0 W - 4	-00-
MEART ModuleTOTAL:	• •	00	00
ADRESION(S)	00	-	00
JEJUNUM ADKERED TO LIVER	0	-	0 1 0

MARKET LOBULAR MARKINGS EES SUPP. PART SETUP OF RESEARCH INCIDENCE SUBMAY REPORT FOR GROSS PROPERTY REPORT FOR FIRST STUDY BUNNER: GLPSSOOD OF SAN FRANCISCO, CA 94129 STUDY BUNNER: GLPSSOOD LAN SURFACE EES TO LIVER TO LIVER THE SUBFACE TO LIVER THE SUBFACE THE SUBFAC		·			TO SOUTH	, CESTRANTIONS,	S, INCIDENCE	ă	SUMMAKI
TED TO LIVER SERVINGS ANIMAL SEX: RED TO LIVER SEX: TED TO LIVER SEX	LETTERMAN ARMY INSTITUTE OF IDIV OF RES SUPP, PATH SERV GIPRESIDIO OF SAN FRANCISCO, C. SPECIES: RAT/FISCHER-344	RESEARCH P A 94129	INCIDENCE	SUMMA START	RY REPORT STUDY NU REPORT FOI DATE: 23-	FOR GROSS NECROPSY OB INBER: GLP83009 R FINAL SACRIFICE JAN-84	PRINTED PAGE PAGE STUDY TYPE: CHRONIC/2 YR	PI ONIC,	PRINTED: 21-NOV-89 PAGE: 2 IC/2 YR CARCINOGENIC
TITULUM TATA SURFACE SAS, CORTICAL m			C11.S	: 60		CTLS 29	FEMALES 19 33	32 33	
100	JEJUNUM JEJUNUM DOMERED TO LIVER DIVERTICULUM			990	000		000	-07	000
FED EDGES FED EDGES	CYST			12 2 2 2 2			o w ← o ∙o	00000	00 <i>n</i>
GED 1.0RATION	PROMINENT LOBULAR MARKING: ROUNDED EDGES			MO0-0V			W-00-0485	25 0 0 8 x L 0 2	0 0 2 3 3 3 3 3
S) WITHIN OVARY S) WITHIN OVARY WENT H(S) / MASS(ES) H(O) TO 0 H(O) / MASS(ES)	YMPH NODES ENLARGED			-0-	000		0	000	-0-
S) WITHIN OVARY OVARIAN CYST(S) H(S) / MASS(ES)	HORRHAGE(S) Scoloration al:			0		_	000	000	000
S) WITHIN OVARY OVARIAN CYST(S)	PROHINENT			10.10	00	-		٧Ņ	00
H(S) / MASS(ES) 0 1 0	(S) WITHIN OVARY -OVARIAN CYST(S)			0			L 10 40	-0-	044
	ANCREAS GROUTH(S) / HASS(ES) TOTAL:					-	a o		

00 04WL8 00 WNW 0000101 VNO1117 101 00 08W0W 00 000 011100W 0701117 000 00 07W0W 00 000 0700004 000	MOTE: CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP: MO. IN GROUP:	C11.S	HALES 1	s 2 39		FE CTLS	FEMALES 1	
Name of the part	(S) / MASS(ES)		00	0	_	• • •		00
ASS(S)/GROWTH(S) ASS(S)/GROWTH(S) MISTINE MIS		0000	04M-0	០៩៥០ ភ		2 T 2 0 8	0 ~ ~ 0 5	20 0 9 11 0
MYESTIME MYESTI	S)/GROWTH(S)		00	0 0	-		00	00
SECESS(ES)	(8)		www	000		•••	000	000
RAMATITIS EN ROWINENT FIBROUS CAPSULE ON RECTURE SCOLORATION ON RAMATITIS CERATION CON CERATION ON CON CON CON CON CON CON CON CON C	SECESS(ES)	-m-00me	0000-0-	00om		N40000	0 ~ 0 0 0 - m	0000N
CERATION	MIMENT FIBROUS CAPSULE ARGED (SPLENOMEGALY) ERED TO PERITOMEAL WALL ICTURE COLORATION LE	0 M O - N O 0	NN0	o~oo		040004	07-00-4	000000
	RMATITIS	0	-0-	900		000	•••	•••

 	NECROPSY HARY REPORT FO STUDY NUME	OB : 3	IDENCE	SUMMARY PRINTED: 21-NOV-89 PAGE: 4
29 STUDY START	REPORT FOR FINAL Date: 23-jan-84	R FINAL SACRIFICE Jan-84	STUDY TYPE: CHRONIC/2 YR CARCINOGENIC	YR CARCINOGENIC
MOTE: CTLS = CONTROLS ANIMAL SEX: FROM GROUP(S): 3 GROUP: CTLS MO. IN GROUP: 44	MALES		CTLS 1	. 218
ENTARGED 21 CROWTH(S) / MASS(ES) 60 DISCOLORATION 1 101AL:	10 12 22 37 1 1 1 36 54		0	o
EMIARGED 0 GROWTH(S) / MASS(ES) 1 TOTAL: 1	-0-		000	900
THYMUS GENERALIZED ATROPHY		_	00	00
HYDROMETRA POLYP GROWTH(S)/MASS(S) GROWTH(S)/MASS(S) CYST(S) TOTAL:	•		-427-080	48-0
VAGINA AGCESS TOTAL:	0	-		00

NOTES: ANIMALS # ALL DEAD FROM 30-JAN-85	TO 15-	 H	SEX	MALES	. . .	INALS	AFFE	5:	E D	
T S S C E S C I T E D I E D	S 5 =	DOSAGE GR NO. 1W GR	GROUP: GROUP:	CTLS 57 5	· ·	55		CTLS 51	- 0,	52
-8- ASTROCYTOMA -1-PITUITARY TUMOR INVASION -N- LARGE GRANULE LYMPNOCYTE LEUKEMIA,	METASTAT	NUMBER EXAMINED: IC	NED:	5 - 1 - 0	000-	20 + 0		2000	00-0	25 0 4
TRACHEA	NUM	NUMBER EXAMINED:	NED:	57 4 0	s 67	55		50	0,0	52 0
THYROID GLANDS		NUMBER EXAMINED	NED:	57 4 111 0	2 0 0 0	£-50-		00000	% 0 0 0 0	70×-0
PARATHYROLD	NON	NUMBER EXAMINED:	INED:	£ 84	38 4	1 5		45	31	37
ESOPHAGUS	NON	NUMBER EXAMINED:	INED:	57 5	5 05	25		20	07	51
SALIVARY GLAND	MON	NUMBER EXAMINED:	INED:	5 7 S 0	5 0 5	55		2 -	39	000
LACRIMAL GLAMD	ION	NUMBER EXAMINED:	INED:	57 5	5 05	55		12	0,4	25
EXORBITAL LACRIM	NON	NUMBER EXAMINED:	INED:	7 75	5 27	53		67	38	20
NEART	METASTA	NUMBER EXAMINED: TIC	NED:	5 75 0 0 0	5 0 % 0 0 % 0	0 7 0 22		2000	ç 000	52 0 1
AORTA	NON	NUMBER EXAMINED:	NED:	5 72	5 05	25		51	0,4	52
LUNGS	METASTA	NUMBER EXAMINED Tic	NED:	57 S 0 0 0	50 5	25.000		10 10 0	04-0-	52 0 0

Appendix H (cont.): MIC	MICROSCOPIC O	OBSERVATIONS,	TIO		INCIDENCE	SUMMARY	ARY	
OF RESEARCH INCI RV GP D, CA 94129	S E S	PIC OBSER ER: GLP83 PAUL W.,	VATION 009 Smith,	NEO er in	NEOPLASMS) PRINTED: 22-NOV-89 Frine D PAGE: 2	PR	PRINTED: PAGE:	22-NOV-89 2
10018	AKI UAIE: CO-JAN	*****		? :		TRONIC/		ALI MOGENIC
NOTES: ANIMALS = ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS = CONTROLS FROM GROUP(S): 3 ANI	HAL	:	HALES -	I H A L S	AFFE	C T E D		
	DOSAGE GROUP: NO. IN GROUP:	CTLS 57	20	55	:	CTLS 1 51 40	25 (• • • • • •
THYMUS NUMBER	EXAMINED:	\$	24	20	_	м	4	
-M- LARGE GRANULAR LYMPNOCYTE LEUKEMIA, METASTATIC -B- ADEMOMA, EMDOCRIME ORIGIM, NOT OTHERWISE SPECIFIED	a	~	400	-00		NO 6	000	
-W- MATHORA -M- ADENOCARCINOMA, NOT OTHERLISE SPECIFIED, SITE OF ORIGIN UNDETERMINED	ORIGIN	- 0	• •	> —	_			
SPLEEM NUMBER EXAMINED: -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- PRESENCE OF METASTATIC SARCOMA -N- PRESENCE OF METASTATIC NEOPLASM	EXAMINED:	× 000	3 540	75 20 10 10		51 40 14 7 0 0	11 0 1	
LYMPH MODES	NUMBER EXAMINED: (Tic	50 10 10	3 r 0 0	55 0 0 0		51 40 7 3 1 1	2000	
LIVERNUMBER EXAMINED -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- PRESENCE OF METASTATIC SARCOMA -N- MEPATOCELLULAR CARCINOMA -N- PRESENCE OF METASTATIC MEOPLASM	EXAMINED:	57 4 0 0	22.00	25 2 0		51 40 14 6 0 -12 0 0	11000	
KIDNEY NUMBER EXAMINED -M- SARCOMA NOT OTHERWISE SPECIFIED -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- PRESENCE OF METASTATIC SARCOMA -N- PRESENCE OF METASTATIC SARCOMA	EXAMINED:	54 0 0 0	0 0400	55 0 1 0		51 40	20000	
URINARY BLADDER	NUMBER EXAMINED:	26 0	80	53	_	1 0	8,0	
UTERUS	EXAMINED:					51 40 2 1 0 0 0 1	2000	

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SHIRNOV TWO-TAILED TEST.

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SMIRNOV TWO-TAILED TEST.

Appendix H (cont.): MICROSCOE LETTERMAN ARMY INSTITUTE OF RESEARCH INCIDENCE SUMMARY OF DIV OF ESS SUPP. PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 PATHOLOGIST(S): PRECIES: RAI/FISCHER 344 STORY START DATE	MICROS TUDY NI AELLICK	OBSERVATIONS COPIC GREENATIONS HABER: GLP83009 ANU W., Smith, C AN-84	ONS, INCIDE: ious(ALL NEOPLASMS) ih, Catherine D STUDY I	INCIDENCE NEOPLASHS) rine D STUDY TYPE: (SUM	SUMMARY PRINTED: PAGE: RONIC/2 YR C	CIDENCE SUMMARY PLASHS) PRINTED: 22-NOV-89 PAGE: 3 P D STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
AD FROM 30-JAN-85 TO 1 LS FROM GROUP(S): 3 H FINDINGS	MAL S E X: AGE GROUP:	A MALES CTLS 1 57 50	N I N A L S	₩ ₩	C T E	E D FEMALES 1	2 2 5 2 5 2
SARCONA	NUMBER EXAMINED:	0 0 0 0	55 1				
NUMBER	NUMBER EXAMINED:		55				
ICLE NUMBER CE OF METASTATIC SARCOMA	EXAMÍNED:	•	24				
EDIDIDYMIS MUMBER -M. PRESENCE OF METASTATIC SARCOMA	NUMBER EXAMINED:	57 49 0 1	24				
TESTES MUMBER -B-MESOTHELIOMA -B-INTERSTITIAL CELL ADENOMA -N-PRESENCE OF METASTATIC SARCOMA -N-PRESENCE OF METASTATIC NEOPLASM	NUMBER EXAMINED:	57 50 1 0 51 43 0 0	\$0. \$				
OVARIES NUMBER -N- LARGE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC -N- PRESENCE OF METASTATIC NEOPLASM	NUMBER EXAMINED: C				200	000	22 1
DUODEMUM MUMBER -W- PRESENCE OF METASTATIC SARCOMA -W- PRESENCE OF METASTATIC NEOPLASM	NUMBER EXAMINED:	57 47 0 3 0 0	2500		600	01-1	6,00
JEJUNUM NUMBER -M- PRESENCE OF METASTATIC SARCOMA -W- PRESENCE OF METASTATIC NEOPLASM	NUMBER EXAMINED:	57 48 0 2 0 0	22 0		800	150	0000
ILEUM	NUMBER EXAMINED:	57 46 1 2 0 3 0 3	W-00		% -00	00	0 0 0 0
PANCREAS NUMBER -B- ISLET CELL ADENOMA -M- PRESENCE OF HETASTATIC SARCOMA -M- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -M- PRESENCE OF METASTATIC MEOPLASM	NUMBER EXAMINED:	57 6 6 6 8 0 0 0 0	88 - E -		0000	00-0-	51 0 0 0

SUMMARY
INCIDENCE
OBSERVATIONS,
MICROSCOPIC
(cont.):
Appendix H

ESEARCH INCIDENCE SUMMARY O		OBSERVATIONS(ALL NEOPLASMS)	PRINTED:
PATHOLOGIST(S): STUDY START DA		str83009 W., Smith, Catherine D STU	PAGE: 4 e d study type: Chronic/2 yr Carcinogenic
NOTES: ANIMALS # ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CILS # CONTROLS FROM GROUP(S): 3 ANIMAL S E X:	MALES	N I N A L S	AFFECTED FEMALES CTIS 1 2
	57 50	55	51 40 52
CECUM NUMBER EXAMINED: -N- PRESENCE OF METASTATIC SARCOMA -B- ADENOMATOUS POLYP	56 45 0 1 0 0	700	48 40 47 0 0 0 1 0 0
RECTUM MUMBER EXAMINED:	56 44 0 0	75 0	49 37 48
COLON	57 46 0 1 0 2	7500	50 39 50 0 0 0 0 0 0
STOMACH	57 49 0 2 0 1	20 0 0	50 40 51 0 0 0 0 2 0 0 0
SKELETAL MUSCLE	87 49	54	51 40 49
SCIATIC MERVE NUMBER EXAMINED:	29 95	52	51 39 44
TONGUE NUMBER EXAMINED:	96 50	24	51 40 52
SKIM	25 24 24 24 24 24 24 24 24 24 24 24 24 24	00-000%0	\$1 39 52 1 2 1 0 0 0 1 0 0 0 0 0 0 0 2 1 0 1 1 2
MANMARY GLANDS	53 48 1 0	000	49 40 51 5 4 2 1 1 2

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNOGOROV-SMIRNOV
TWO-TAILED TEST.

Appendix	H (cont.)	::	MICRO	MICROSCOPIC	OBSERVATIONS	ATIC		INCIDENCE		SUMMARY	
LETTERMAN ARMY INSTITUTE OF RESEA DIV OF RES SUPP, PATH SERV GP PRESIDIO OF SAN FRANCISCO, CA 941 SPECIES: RAT/FISCHER-344	RESEARCH 1P 1A 94129	INCIDEN PAT SI	INCIDENCE SUMMARY PATHOLOGIST(S STUDY START	OF MI STUD): MEI	ICROSCOPIC OBSE NY NUMBER: GLPB LLICK, PAUL W., 23-JAN-84	RVATIO 3009 Smith	OBSERVATIONS(ALL NEOPLASMS) GLP83009 . W., Smith, Catherine D	OPLASMS) ne 0 STUDY TY	PE: CHRON	PRINTED: PAGE: IC/2 YR CA	PLASMS) PRINTED: 22-NOV-89 PAGE: 5 e D STUDY TYPE: CHRONIC/2 YR CARCINGENIC
NOTES: ANIMALS = ALL DEAD FROM 3 CTLS = CONTROLS FROM G T I S S U E S W I T M F I	ROM 30-JAN-85 TO ROM GROUP(S): 3		15-FEB-86 ANIMAL DOSAGE	GROUP:	CTLS	- MALES LS 1 57 50	N 1 N A L 2 55	×	7 E C	FEMALES FEMALES S 1	28.2
NOSE/TURBINATES			NUMBER EXAMINED	KAMINED:	57	67	53	_	51	07	52
BONE, STERNUM		, NETASTA	NUMBER EXAMINED HETASTATIC	KAMINED:	57	20	55		20	80	51
BONE, FEHUR		IA, METASTA	NUNBER EXAMINED METASTATIC	KAM I WED :	57 0	48	55 2	_	120	0,0	15
BONE VERT		METASTAL	NUMBER EXAMINED METASTATIC	KAM I WED:	57	50	35 M		120	9 0	52 1
SPINAL CORD		:	NUMBER EXAMINED	KAMINED:	99	20	55		51	0,	52
ADREMAL	UKEMIA,	HETASTATIC	NUMBER EXAMINED	KAMINED:	24	20077	2 0 0 8 2 2 3 0 0 8 2		15 0 0 0	9000-	50 1 1 3
PITUITARY GLAND	TE LEUKEMIA,	METASTATIC	NUMBER EXAMINED	XANINED:	48 8 1	9700	50 50 50 50 50 50 50 50 50 50 50 50 50 5		00 00 00 00	000	23 0 0
EYES & OPTIC N			NUMBER EXAMINED:	XAMINED:	27	94	55	_	87	37	51
EAR	•	EXTERNAL EAR, 1	NUMBER EXAMINED: Nojacent to ear t	. NUMBER EXAMIMED: ADJACENT TO EAR TAG	900	% -0	3 0 -		0 0	000	52 0 0
AD SEBACIOUS	•		NUMBER EXAMINED	XAMI WED:	99	64	53	_	20	38	51
ABDONINAL WALL		:	NUMBER E	EXANIMED:	0	•	•		0	•	0
THORAK	SARCOMA IN	OMA IN THORACIC	NUMBER E	EXANINED:	••	00	••		00	~ -	00
NOTE: ENTRIES FLAGGED WITH A -	WITH A - (MINUS)	ARE	BNIFICANT	ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT	T FROM CONT	ROL AT	Ŧ	0.05 LEVEL USING KOLMOSOROV-SMIRNOV	ING KOLMO	30ROV - S	HIRNOV

Appendix H (cont.): MICROSCOPIC OBSERVATIONS, INCIDER LETTERNAN ARMY INSTITUTE OF RESEARCH INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS(ALL NEOPLASHS) DIV OF RES SUPP, PATH SERV GP PATHOLOGIST(S): MELLICK, PAUL W., SMITH, Catherine D SPECIES: RAT/FISCHER-344 STUDY STUDY START DATE: 23-JAN-84	OPIC OBSERVATIONS F MICROSCOPIC OBSERVATIONS STUDY NUMBER: GLP83009 MELLICK, PAUL W., Smith, C	S, INCIDENCE ALL NEOPLASMS) Satherine D STUOY TYPE:	ICIDENCE SUMMARY PLASMS) PRINTED: 22-NOV-89 PAGE: 6 e D STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
MOTES: ANIMALS # ALL DEAD FROM 30-JAH-85 TO 15-FEB-86 CTLS # CONTROLS FROM GROUP(S): 3 ANIMAL S E X: DOSAGE GROUP: T I S S U E S W I T H F I N D I N G S NO. IN GROUP:	. MALES - 2 CTLS 1 2 SS 57 50 SS	~	A F F E C T E D FEMALES CTLS 1 2 51 40 52
WHOLE BODY	57 50 54 5 10 16		51 40 52 14 6 11
MED ASTINUM NUMBER EXAMINED: -N PRESENCE OF METASTATIC SARCOMA -N PRESENCE OF METASTATIC MEDPLASM	400		1000
ABDCMIMAL CAVITY	9 4 4 9		0 12 1 0 12 0 0 0 0 1
DIAPHRAGM NUMBER EXAMINED:	0 42 19		0 40 25 0 10 0 0 2 0
NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SHIRNOV TWO-TAILED TEST.	ROM CONTROL AT TH	E 0.05 LEVEL USING P	KOLMOGOROV-SMIRNOV

SUMMARY
INCIDENCE
OBSERVATIONS,
MICROSCOPIC
(cont.):
Appendix

PRESIDIO OF SAN FRANCISCO, CA 94129 PATHOLO SPECIES: RAT/FISCHER-344 STUDY	PATHOLOGIST(S): MELLICK, PAUL STUDY START DATE: 23-JAN-84	3	Smith, Catherine S	ne D STUDY TYPE:	: CHRONIC/2	10/2	YR CARCINOGENIC	DGENIC
S = ALL DEAD FROM 30-JAN-85 TO 15-FEB S = CONTROLS FROM GROUP(S): 3	-86 ANIMAL S E X: DOSAGE GROUP: NO. IN GROUP:	AALES CTLS 1 57 50	S 2 55	4	E C T E	E D	s - 2 2 2 2 2	• • • •
BRAIM NUMBER -I-PITUITARY TUMOR INVASION -N-LARGE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC	BER EXAMINED:	57 50 1 0 1 0	55		 0	9-0	52.5	:
TRACMEA NUMBER	BER EXAMINED:	57 49 0 0	0		50	90	52 0	
THYROID GLANDS NUME -M- PARA-FOLLICULAR CELL ADENOCARCINOMA -M- FOLLICULAR ADENOCARCINOMA	NUMBER EXAMINED:	0 0 0	53 1		20	37 0	7 - 0	
PARATHYROID MUMBER	BER EXAMINED:	48 38	57		45	31	37	
ESOPHAGUS NUMBER	BER EXAMINED:	57 50	55	_	20	0,	51	
SALIVARY GLAND NUMBER	BER EXAMINED:	57 50 0 0	55 0		2.	90	0.0	
LACRIMAL GLAND NUMBER	SER EXANINED:	57 50	55	_	51	0,	52	
EXORBITAL LACRIM NUMBER	SER EXAMINED:	27 75	53	_	67	38	20	
MEART NUMBER -M- ATRIO-CAVAL EPITHELIAL MESOTHELIONA -N- LARGE GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- PRESENCE OF METASTATIC MEDPLASM	3ER EXANINED:	57 50 0 0 0 3	55 0 0		2000	9000	52	
AORTA MUNG	NUMBER EXAMINED:	57 50	55	_	53	0,	52	
LUNGS NUMBER -xx - LARGE GRANULAR LYMPHOGYTE LEUKKHIA, METASTATIC -xx - presence of metastatic medplasm -xx - presence of metastatic sarcoma	BER EXAMINED:	57 50 3 7 0 0 1	55 0 0		51 10 1 0	94	32 0 - 0 0 - 0	
THYMUS HUMB HUMB HUMB HUMB HUMB HUMB HETASTATIC ADENOCARCINOMA, NOT OTHERWISE SPECIFIED, SITE CUMDETERNINED	NUMBER EXAMINED: TIC TE OF ORIGIN	20 0 44	200		9,70	800	% 20	

MOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNOGOROV-SMIRNOV TWO-TAILED TEST.

Appendix H (cont.): MICROSCOPIC	OBSERVATIONS, INCIDENCE	SUMMARY
OF RESEARCH RV GP D, CA 94129	SERVATIONS(MALIGNANT GLP83009 L W., Smith, Catherin	PRINTED: 22-NOV-89 PAGE: 2
i		SIDDT ITPE: CHRONIC/2 TR CARCINOGRAIC
	MALES A W I M A L S A F F E	CTED FEMALES
TISSUES VITE FINDINGS NO. INCROUP.	55 05 25	51 40 52
SPIEEM NUMBER EXAMINED:	27 49 54	51 40 52
ARCO EOPL	5 10 16 0 2 2 0 0 1	14 7 11 0 i 0 0 0 1
LYMPH MODES	57 49 55 3 7 10 1 0 0	51 40 51 7 3 9 1 1 0
LIVER	57 50 55 4 8 15 0 -12 3 0 0 2	51 40 52 14 6 11 0 -12 0 0 2 0
KIDNEY NUMBER EXAMINED: -M-SARCOMA NOT OTMERNISE SPECIFIED -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- PRESENCE OF METASTATIC SARCOMA -N- PRESENCE OF METASTATIC SARCOMA	57 49 55 1 0 0 0 4 2 0 0 1 0 0 0	51 40 51 0 0 0 0 0 0 0 1 0
URINARY BLADDER	56 48 53 -	69 39 48
UTERUS NUMBER EXAMINED: -M- ENDOMETRIAL SARCONA -N- LARGE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC -M- LEIOMYOSARCONA		51 40 51 2 1 0 0 0 2 0 1 0
PROSTATE NUMBER EXAMINED: NUMBER EXAMINED: NUMBER EXAMINED:	57 48 55	
COAG GL NUMBER EXAMINED:	96 47 55	
SEMIMAL VESICLE	57 49 54	

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNOGOROV-SMIRNOV TWO-TAILED TEST.

SUMMARY
INCIDENCE
C OBSERVATIONS,
MICROSCOPIC
(cont.):
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Appendix

OF RESEARCH V GP , CA 94129	INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS(MALIGNANT NEOPLASMS) STUDY NUMBER: GLP83009 PATHOLOGIST(S): MELLICK, PAUL W., Smith, Catherine D STUDY STARI DATE: 23-JAN-84	ERVATIONS GLP83009 W., Smit	CMALIGNANT NE	NEOPLASMS) PRINTED: 22-NOV-89 PAGE: 3 e D STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	PRI RONIC/2	PAGE:	PRINTED: 22-NOV-89 PAGE: 3 C/2 YR CARCINGGENIC
MOTES: ANIMALS # ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS # CONTROLS FROM GROUP(S): 3 ANI T I S S U E S W I T W F I W D I W G S WO.	MAL S E X: AGE GROUP: IN GROUP:	CTLS 1 57 50	N 1 N A L	A F F E CT			.: 52
EDIDIDYMIS MUMBEL	NUMBER EXAMINED:	57 49 0 1	54				
TESTES NUMBEI-LE SARCOMA -M. PRESENCE OF METASTATIC SARCOMA -M. PRESENCE OF METASTATIC MEOPLASM	NUMBER EXAMINED:	57 50 0 0 0 0	25				
OVARIES	NUMBER EXAMINED: ASTATIC				51 0 0	000	51 2 1
DUODENUM NUMBEL -M- PRESENCE OF METASTATIC SARCOMA -w- PRESENCE OF METASTATIC MEOPLASM	NUMBER EXAMINED:	57 47 0 3	28 0 0		3 0 0	0,	.
JEJUNUM NUMBEL -K- PRESENCE OF METASTATIC SARCOMA -K- PRESENCE OF METASTATIC MEOPLASM	NUMBER EXAMINED:	57 48	2 0		***	6 2 -	000
ILEUM	R EXAMINED:	57 46 1 2 0 3 0 0	W - 00		9-00		0000
PANCREAS NUMBER -N- PRESENCE OF METASTATIC SARCONA -N- LARGE GRANULAR LYMPHOCYTE LEUKENIA, METASTATIC -N- PRESENCE OF METASTATIC NEOPLASM	R EXAMINED:	57 48 0 3 0 1	χ μ		0000	0-0-	51 2 0
CECUM NUMBER	NUMBER EXAMINED:	56 45 0 1	54 0	_	40	7 07	47 0
RECTUM NUMBER	R EXAMINED:	56 44 0 0	5 40		M -	, ,	18
COLOM NUMBEI	NUMBER EXAMINED:	57 46 0 1	%°°		50 39		000

MOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNOGOROV-SMIRNOV TWO-TAILED TEST.

Appendix H (cont.):	MICROSCOPIC	OBSERVATIONS,		INCIDENCE	SUMMARY	ARY	
OF RESEARCH INCIDEN	SUMMARY OF	MICROSCOPIC OBSERVATIONS(MALIGNANT NEOPLASMS) Study Number: GLP83009	MALIGNANT NE	OPLASMS)	<u>م</u>	PRINTED: PAGE:	22-NOV-89 4
94129	PATHOLOGIST(S): MELLICK, PAUL W., Smith, Catherine D STUDY STARI DATE: 23-JAN-84	K, PAUL W., Smith JAN-84	, Catherine ST	STUDY TYPE: CHRONIC/2 YR CARCINGENIC	IRONIC/	2 YR C/	CARCINOGENIC
2	15-FEB-86	,	NIMALS	AFFE	CTED		
CTLS = CONTROLS FROM GROUP(S): 3	ANIMAL S E X:	CTI 6 1	; ^		FEMALES CTLS 1		
SUES WITH	NO. IN GROUP:	57 50	55		:	40 52	•
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		67 25	55		20 4	0 51	
SIGNACH -E-LARGE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC -E- PRESENCE OF METASTATIC SARCOMA	110		0-		00	00	
SKELETAL MUSCLE	NUMBER EXAMINED:	57 49	54	_	51 4	67 07	
SCIATIC MERVE	NUMBER EXAMINED:	29 45	52	_	51 3	39 44	
10MOI	NUMBER EXAMINED:	26 50	25	_	51 4	40 52	
:	NUMBER EXAMINED:	55 47	20	_	51 3	39 52	
-M- BASAL CELL CARCINOMA -M- Meurofibrosarcoma, subcutaneous, location i -M- fibrosarcoma	TO BE SPECIFIED	-00	, n o		· o -	200	
	MUMBER EXAMINED:	53 48	50 0		4 04	40 51	
MOSE/TURBINATES	NUMBER EXAMINED:	57 49	53	_	51 4	40 52	
BONE, STERMUM	NUMBER EXAMINED: .TIC	57 50 0 4	52		50 0	38 51	
BONE, FEMUR	HETASTATIC	57 48 0 4	22		5 0 0	40 51 0 1	
BOKE VERT NU	NUMBER EXAMINED: .Tic	57 50 0 4	33		51 6 0	40 52 0 1	
SPINAL CORD	NUMBER EXAMINED:	56 50	55	_	51 4	70 52	
ADRENAL NU - MEDULLARY CARCIMONA - N- LARGE GRANULE LYMPHOCYTE LEUKENIA, METASTATIC	NUMBER EXAMINED:	57 50	2 0 22 2 0 22			10 S0	
PITUITARY GLAND	NUMBER EXAMINED:	% 00 00	2 0 2		00 00 4	·, 0 0 0	

NOTE: ENTRIES FLAGGED WITH A . (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNGGOROV-SMIRNOV TWO-TALLED TEST.

MOTES: ANIMALS = ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS = CONTROLS FROM GROUP(S): 3	HAL		MALES	NINALS 	AFFE	_ (C T E D	•
ON SENIES ELTE TINGS IN	NO. IN GROUP:	57	- 22 :	55		515	- 0,	52
EYES & OPTIC M	R EXAMINED:	25	94	\$5	-	87	37	51
EAR NUMBER EXAMINED: -N- FIBROSARCONA, SUBCUTANEOUS, EXTERNAL EAR, ADJACENT TO EAR TAG-1- PITUITARY TUMOR INVASION	R EXAMINED: Nt to ear tag	98 0 0	67-0	54 0 1		200	900	52 0 0
AD SEBACIOUS NUMBES	NUMBER EXAMINED:	98	67	53	_	20	38	51
ABDONINAL WALL NUMBER	NUMBER EXAMINED:	•	•	0	_	•	0	0
THORAX NUMBER -M- PRESENCE OF METASTATIC SARCOMA IN THORACIC MALL.	NUMBER EXAMINED: Wall.	00	00	00		00	2 -	••
WHOLE BODY NUMBER -M. LARGE GRANULAR LYMPHOCYTIC LEUKEMIA	NUMBER EXAMINED:	57 5	55	54 16		51	9 9	52 .
MEDIASTIRUM NUMBER EXAMIMED -N- PRESENCE OF METASTATIC SARCOMA -N- PRESENCE OF METASTATIC SARCOMA	R EXAMINED:	400	940	~ 00		-00	000	N O +
ABDOMINAL CAVITY	R EXAMINED:	000	5 to	04-		000	520	-0-
DIAPMRAGM NUMBER EXAMINED: -N- PRESENCE OF METASTATIC SARCOMA -N- PRESENCE OF METASTATIC NEOPLASM	R EXAMINED:	•••	200	\$ 50 0		000	902	25 0 0

Appendix H (cont.): MICROSCOPIC		OBSERVATIONS,	ATIC		INCIDENCE		SUMMARY	RY	
LETTERNAM ARMY INSTITUTE OF RESEARCH INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS(BENIGN NEOPL DIV OF RES SUPP, PAIN SERV GP PRESIDIO OF SAW FRANCISCO, GA 94129 PAINOLOGIST(S): MELLICK, PAUL W., Smith, Catherine D SPECIES: BAIAFISCHER-344 STAA		MICROSCOPIC OBSERVATION Study Number: Glp83009 Mellick, Paul W., Smi Te: 23-Jaw-84	AT 10N: 3009 Smit	GENICH I	MICROSCOPIC OBSERVATIONS(BENIGN NEOPLASMS) Study Number: GLP83009 Mellick, Paul M., Smith, Catherine D TE: 23.1AN-84	E: CKROK	PRIN'	PRINTED: 2 PAGE: 1 IC/2 YR CAN	OPLASMS) PRINTED: 22-NOV-89 PAGE: 1
D FROM 30-JAN-85 TO 1			*	N I N A	LSAF	F E C T	О		
FRON GROUP(S): 3 ANIMAL DOSAGE	S E X; GROUP;		MALES	. ~		F CTLS	FEMALES TLS 1	; ~	
	GROUP:	57	2	55	-	51	0,7	25	
BRAIN MUMBER EXAMIMED:	II NED:	57	0 0	0		20	9 0	52	
TRACHEA MUNDER EXANINED:	I NED:	25	64	55	-	20	07	25	
THYROID GLANDS	EXAMINED:	57 0 11	7 00	53 10		00 9	37	70 v	
PARATHYROID WUNDER EXAMINED:	II NED:	9,	38	45	_	45	31	37	
ESOPEACUS HUNDER EXAP	EXANINED:	57	20	55	_	20	07	51	
SALIVARY GLAND NUMBER EXAMINED:	IINED:	57	20	55	_	51	39	20	
LACRIMAL GLAND MUNBER EXAM	EXAMINED:	57	20	55	_	51	0,	25	
EXORBITAL LACRIM HUMBER EXAM	EXAMINED:	25	25	53	_	67	38	20	
EEART BURGER EXAM	EXAMINED:	57	20	55	_	51	0,4	25	
AORTA NUMBER EXAM	EXAMINED:	25	20	55	_	. 51	0,	25	
LUNGS NUMBER EXAMINED -B. BRONCHIOLAR/ALVEOLAR ADENOMA	INED:	57	50	55		20	90	52 0	
TMYMUS NUMBER EXAMINED -B. ADENOMA, ENDOCRIME ORIGIN, NOT OTHERWISE SPECIFIED -B. TNYMOMA	I NED:	8	7 00	000		900	800 000	v 0 0	
SPLEED NUMBER EXAMINED	INED:	25	6	24	_	51	0,4	25	
LYMPE BODES BUNDER EXAMINED	I MED:	22	6,	55	_	51	70	51	
LIVER MUMBER EXAM	EXAMINED:	23	8	22		51	9	25	

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SMIRMOV TWO-TAILED TEST.

MOTES: ANUMALS = ALL DEAD FROM 30-JAN 65 TO 15-FEB-66 CTLS = CONTROLS FROM GROUP(S): 3 ANUMAL S E X T I S S U E S W I T N F I N D I N G S NO. IN GROUP	5	MALES CTLS 1 57 50		M A L S	u. <	E C T E FEI CTLS 51	C T E D FEMALES 1 1 51 40	ES - :	
		57 4	67	55	_	2	0,4	51	
URINARY BLADDER	EXAMINED:	, 56 0	80	53		6 , 0	39	8 O	
UTERUS MUMBER EXAMINED:	KAM I NED:				_	51	07	21	
PROSTATE NUMBER EX	EXAMINED:	27 4	97	55					
COAG GLNUMBER EX	EXAMINED:	7 95	. 24		_				
SEMINAL VESICLE	EXAMINED:	57 4	64	24	_				
EDIDIDYMIS NUMBER EX	EXAMINED:	57 4	64	24	_				•
TESTES NUMBER EXAMINED: -B-MESOTHELIONA -B- INTERSTITIAL CELL ADENONA		57 5	20 20	55 0 7,					
OVARIES NUMBER EXAMINED:	KAMINED:				_	51	9	12	
DUGGENUM NUMBER EX	EXAMINED:	57 4	. 24	25	_	64	0,4	67	
JEJUNUM NUMBER EX	EXAMINED:	, 25	84	25	_	84	40	20	
ILEUM NUMBER EX	EXAMINED:	57 4	9,	53	_	8,	40	20	
PANGREAS NUMBER EX-	EXAMIMED:	57 4 6	8 9	55		50	3 o	15 E	
CECUM NUMBER EX-	EXAMINED:	7 95	2°0	750		8 7	4 0	67	
RECTUM MUNBER EXAMINED	••	7 95	*	24		67	37	84	
COLON	INEO:	57 4	9,	24		20	39	20	

NOTE: ENTRIES FLAGGED WITH A - (MIMUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNOGOROV-SMIRHOV TWO-TAILED TEST.

Appendix H (cont.):	MICROSCOPIC		OBSERVATIONS	TIONS	INC	INCIDENCE	SUM	SUMMARY	
EARCH	E SUMMARY C	INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS (BENIGN NEOPLASMS) STUDY NUMBER: GLP83009	OBSERVAT : GLP830	IONS (BEN 09	IIGN NEOPL	ASHS)	•	PRINTED: PAGE:): 22-NOV-89 E: 3
4129	THOLOGIST(S	PATHOLOGIST(S): MELLICK, PAUL W., Smith, Catherine STUDY START DATE: 23-JAN-84	رد د ع 4 الله ع	ith, C	therine D	D TUDY TYPE: C	HRONIC	./2 YR	STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ANIMALS # ALL DEAD FROM 30-JAN-85 TO CTLS # CONTROLS FROM GROUP(S): 3 S U E S W I T M F I M D I M G S	15-FEB-86 ANIMAL DOSAGE NO. 1M	S E X: GROUP: GROUP:	CTLS 57	A W 1 1 2 50 55	N L N	A.	C T E D FEMALES CTLS 1	•	.: 52 52
STOMACH	NUMBER EXAMINED	MINED:	57	49 55 1 0		t 1 1 1 1 1	50	0,0	51
SKELETAL MUSCLE	NUMBER EXAMINED	MINED:	25	75 67	_		12	0,4	67
SCIATIC MERVE	NUMBER EXAMINED	MINED:	99	42 52	_		5	39	3
TOMOUE	NUMBER EXAMINED	IMINED:	20	20 54	_		51	07	52
SKIN	NUMBER EXAMINED	MINED:	NW0	50 m 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			20000	6 0 0 0 0 0	<u> </u>
MAMMARY GLANDS	NUMBER EXAMINED	IM I NED:	53	0 0	_		3 ~	0,4	51 2
HOSE/TURBINATES	NUMBER EXAMINED	IMINED:	2.5	49 53	_		51	0,4	25
BORE, STERRUR	NUMBER EXAMINED	ININED:	57	50 55	_		20	38	51
BONE, FEMUR	NUMBER EXAMINED	IMINED:	25	48 55	_		12	04	51
BORE VERT	NUMBER EXAMINED	MINED:	25	50 55	_		51	0.4	52
SPINAL CORD	NUMBER EXAMINED	MINED:	26	50 55	_		12	07	52
ADRENAL	NUMBER EXAMINED	MINED:	5- 9	50 55 0 0 2 3			2	000	50 1
PITUITARY GLAND	NUMBER EXAMINED	MINED:	38	46 55 24 28			200	52	~ ₪

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SMIRMOV TWO-TAILED TEST.

			100					
	INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS(BENIGM MEOPLASMS)	MICROSCOPIC OBSERVATIO Study Number: Glp83009	47 10MS 3009	(BENICK	NEOPLASMS)		2 2 2	PRINTED: 22-NOV-89 PAGE: 4
1129	PATHOLOGIST(S): MELLICK, PAUL W., Smith, Catherine D STUDY START DATE: 23-JAN-84	PAUL W.	Smitt	, Cather	ine D STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	CHRONI	C/2 \	TR CARCINOG
NOTES: ANIMALS = ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS = CONTROLS FROM GROUP(S): 3 ANIM	-86 ANIMAL S E X:		MALES	SIVE	L S A F E C T E D	1	TED	•
	DOSAGE GROUP: NO. IN GROUP:	57	- 8	22		25.	- 9	52
ETES & OPTIC M NUMBER	EXAMINED:	22	94	25	-	87	37	15
EAR NUMBER	NUMBER EXAMINED:	99	67	24	-	51	9	52
AD SEBACIOUS NUMBER	NUMBER EXAMINED:	98	67	53	_	20	38	51
ABDOMINAL WALL NUMBER	NUMBER EXAMINED:	•	•	•	_	0	•	•
THORAX NUMBER	NUMBER EXAMINED:	•	0	0	-	0	~	•
WHOLE BODY NUMBER	NUMBER EXAMINED:	25	20	24	_	51	9	25
MEDIASTINUM NUMBER	EXAMINED:	4	•	7	-	-	~	~
ABDOMINAL CAVITY NUMBER-B- LIPOMA	NUMBER EXAMINED:	••	50	٥-		00	12 0	-0
DIAPHRAGM WUNBER EXAMINED:	EXAMINED:	•	75	19	_	•	0,4	52

cont.	ATIONS, tvationschon-n 5009	INCIDENCE SUMMARY EOPLASHS) PRINTED: 22-NOV-89 PAGE: 1
STUDY STUDY	Saith, Catherin	STUDY TYPE: CHRONIC/2 YR CARCINGENIC
MOTES: ANIMALS # ALL DEAD FROM 30-JAN-85 TO 15-FEB-86	ANIMALS	S AFECTED
DOSAGE G S NO. IN		- 0,
	57 50 55	1 51 40 52
		00
-PERIVASCULAR LYMPHOCYTIC CELLULAR INFILTRATION -GLIOSIS -MISTIOCYTIC IMFILTRATION, PERIVASCULAR		
TRACHEA	57 49 55 2 2 0 2 1 0	50 40 52 2 0 0 0 0 0
TMYROID GLAMDS	57 47 53 0 0 1 10 4 17 0 5 3	50 37 47 0 0 0 14 8 17 0 1 1
PARATHYROID NUMBER EXAMINED:	48 38 45	1 45 31 37
ESOPNAGUS NUMBER EXAMINED:	57 50 55 0 1 0	50 40 51
SALIVARY GLAND	57 50 55 2 3 1 0 1 0	51 39 50 2 0 2 0 0 2
LACRIMAL GLAND	57 50 55 7 2 0 0 0 1	51 40 52 6 1 2 1 2 1
EXORBITAL LACRIM	54 47 53 1 0 1 1 0 0	49 36 50 12 13 6 1 1 1
MEART NUMBER EXAMINED: -CARDIOMYOPATHY -MEDIAL MYPERTROPHY OF MUSCULAR ARTERIES -MURAL THROMBUS	57 50 55 55 48 54 22 20 18 1 0 0	51 40 52 37 38 49 10 4 8 0 0 0

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SHIRNOV TWO-TAILED TEST.

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNOGOROV-SHIRNOV TWO-TAILED TEST.

129 PA S	CK, PAUL W., -JAN-84	2	, cather	DY 1	E: CHRONI	7/5	IR CAR	CINOGENI
NOTES: ANIMALS = ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS = CONTROLS FROM GROUP(S): 3 ANIMAL S E X: T I S S U E S W I T M F I N D I N G S NO. IN GROUP:	CTLS 57	- MALES LS 1 57 50	E E A 55	×	: w ' :	C T E D FEMALES TLS 1 51 40	223	1 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	57	20	22	_	52	0,	25	
LUNGS	20 0040 % 0 M M M M M M M M M M M M M M M M M	00 00 00 00 00 00 00 00 00 00 00 00 00	% 0000 % 040 40 40 40 40 40 40 40 40 40 40 40 40		20 00-07w40u-	60 00-040-0	22 0000 20 0000000000000000000000000000	
TAYALS BUMBER EXAMINED.	30 0	47	0 0		4 0	88 0	65	
-LYMPHOID HYPERPLISIA OF THE SPLENIC CORPUSCLES -INFARCTION, CARSULAR -INFARCTION, CARRONIC -EXTRAMBOLLLARY HENATOPOIESIS -HEMOSIDERIN PIGNENTATION (RED PULP) -SMOOTH HUSCLE HYPERTATION', CAPSULE AND TRABECULAE -HISTIOCYTIC INFILTRATE, CAPSULE AND OMENTUH -BENIGN HYPERTROPHIC MODULE -COMPOUND RELATED INFLAMMATORY REACTION	×0-48	\$-00M000	4-4 8 00-0			900404000-	No-400000	
LYMPH MODES	12 12 0	49 -24 3 3	55 18 129 129		15 4 4 6 0	22 - 28 - 28 - 28 - 28	51 17 26 6	

SUMMARY
INCIDENCE
MICROSCOPIC OBSERVATIONS, INCIDENCE
MICROSCOPIC
(cont.):
ppendix H

E N	INCIDENCE SUMMARY PATHOLOGIST(S STUDY START		IVATIONS(NON-NEOPLA 1009 Smith, Catherine D STU	YPE: CHRON	PRINTED: PAGE: IC/2 YR CA	D: 22-NOV-89 E: 3 CARCINOGENIC
HOTES: ANIMALS HALL DEAD FROM 50-JAN-05 CTLS H CONTROLS FROM GROUP(S):	85 10 15-FEB-86): 3 ANIMAL S E X: DOSAGE GROUP: M G S NO. IN GROUP:	A MALES 1 CTLS 1 57 50	R	AFFECTE CTLS CTLS FE	E D	2 2 5 2
ORY R	EACTION ASIA AND/OR CHOLANGIOFIBROSIS BASOPHILIC	57 50 -48 56 -48 12 14 23 9 22	8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 0 0 5 2 5 8		
۲, ۵	CLEAR CELLS Infiltration			0 4 - M - F	0 M 0	N440
W	ES (NON-NECROTIC) Jal Cells Eosinophilic Cells G)	_ี พ ๐ ๑ พี	74-0440 2117mmus		1 mm - r o ñ	-4001-40%
NR P	IGMENT) IN TUBULAR EPITHELIAL WITH OR WITHOUT MINERALIZATION	57 - 48 57 - 48 0 0 0 0 0 0 0 1	000 00 00 00 00 00 00 00 00 00 00 00 00	***************************************	4 w 0 0 0 0 0	25. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
:5 :2	LTRATION LTRATION RECTION RECT	* *	53 2 2 3 3	20 0 0 1 1 2 1 0 0 1 1 1 1 1 1 1 1 1 1 1	W 0000 r w 0 N	8

MOTES: AMINALS - ALL DEAD FROM 30-JAM-85 TO 15-FEB-86	*	SIVELE	LS AFFECTED	C 7	:	
GROUP(S): 3	MALES CTLS 1 57 50	: ~ 55		FE CTLS 51	FEMALES 1 40	: 2 2
UTERUS MECROSIS AND CARONIC INFLAMMATION OF UTERINE STROMA				15	0,0	0
PROSTATE	57 40 49 53 49 53 54 54 54 54 54 54 54 54 54 54 54 54 54	36 0 55				
COAG GL	29 47	55				
SEMINAL VESICLE	57 49 35 27	31				
EDIDIDYMIS	67 25	54				
TESTES NUMBER EXAMIMED: -TUBULAR ATROPHY -INTERSTITIAL CELL HYPERPLASIA -PERIARTERITIS MODOSA	57 50 6 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Now-				
OVARIES NUMBER EXAMINED: -FOLLICULAR CYST(S) -CYSTIC CORPORA LUTEA -PARA-OVARIAM CYST(S) -INFLAMMATORY CELL INFILTRATION				22270	3 umno	r.108r
DUODENUM	27 67	8000		ç 000	9	9 000
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -ACUTE PERITOWITIS -EMTERITIS, SUBSCUTE	57 0 14 0 0 0	20		*0000	3 to 0 x x	00000
PRECENCE OF MUCOSAL EPITHELIAL CELLS WITHIN INTESTINAL WALL AND ADJACENT FIBROUS/GRANULOMATOUS INFLAMMATORY REACTION	00			• •	· ~	

MOTE: ENTRIES FLAGGED WITH A - (MIMUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SMIRNOV TWO-TAILED TEST.

u (000)	STACOSCASTA	ORSERVATIONS	INCIDENCE	SUMMARY	
SEARCH	SUMMARY OF MICROS	INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS (NON-NEOPLASMS)	 	PRINTED	22-NOV-89
22	STUDY NU	STUDY NUMBER: GLP83009 PATHOLOGIST(S): MELLICK, PAUL W., Smith, Catherine	erine D PAGE: 5	PAGE:	71435041784
	STUDY START DAIR: 25-JAN-64	AN-64	SIUUT ITPE: LAR	CONTEST OF THE	
NOTES: ANIMALS = ALL DEAD FROM 30-JAN-85 TO 15-FEB-86		= =	ALS AFFEC	T E 0	
GROUP(S):		MALES		FEMALES	
SUES EITH FIN	NO. IN GROUP:	57 50 55		51 40 52	1
		57 46 53	-	05 07 81	
OUND RELATED INFLAMMATORY REACTION		- m -			
-LYMPHOID MYPERPLASIA		-	_	•	
PARCERS MI	NUMBER EXAMINED:	57 48 55 16 10 18		50 40 51 9 10 12	
-CEROHIC INFLAMMATION					
		. 0 .		· • •	
-COMPOUND RELATED INFLAMMATORY REACTION -CYSTIC DUCT		0 0 0 0			-
	NUMBER EXAMINED:	26 45 54	_	78 40 47	
-COMPOUND RELATED INFLAMMATORY REACTION -Debiablestrits modosa, arteries in cecal wall or	MESENTARY	• •		- 0	
SUBMUCOSA LAMINA PROPRIA		-00		000	
-MONOBUCLEAR CELLULAR INFILTRATION		-	_	9	•
AECTUR	NUMBER EXAMINED:	75 77 95	_	85 22 65	_
	NUMBER EXAMINED:	4		39 5	
REACTION AND HYPERPLASIA	AND HYPERSECRETION	- O		,0	
•	NUMBER EXAMINED:	57 49 55			
		9 6		-12	00
-SERUSAL FIGROSIS -ULCERATION, MOM-GLANDULAR AREA		0 C I		· - •	
-MUCOSAL AND/OR SUBMUCOSAL EDEMA -EROSION AND/OR ULCERATION OF THE GLANDULAR MUCOSA	4 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0	V O
	NUMBER EXAMINED:	27 49 54		4	
-ACUTE MYOSITIS -CHROMIC MYOSITIS				000	
-CHROMIC IMFLAMMATION RESTRICTED TO FASCIA		- -	_	•	

NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SMIRNOV TWO-TAILED TEST.

ES: ANIMALS # ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS # CONTROLS FROM GROUP(S): 3 ANIMAL S E X: CONTROLS FROM GROUP(S): 3 DOSAGE GROUP: CT	PATHOLOGIST(S): MELLICK, PAUL W., Smith, STUDY START DATE: 23-JAN-84	Smith, Catherine D STUDY TYPE	ie D STUDY TYPE: CHRONIC/2		YR CARCINOGENIC
	MALES -	2 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	F E C T E D FEMALES CTLS 1	D 1 2 40 52	
SCIATIC NERVE	75	52	2	39 44	
CELLULAR INFILTRATION IS RIROPHY AND MIMERALIZATION OF MEDIUM-SIZED MUSCULAR	00 m -	7	1000	40 10 00 00 00 00 00	
SKIN	70000000mr	20000-000		33	
MAMMARY GLAMDS	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	25 24 19	45 45 36 36	40 51 35 45 0 0 31 39	
MOSE/TURBINATES	50 - 00	28	20 - 02	40 52 0 1 23 31	
NUMBER EXAMINED:	57 50 5 2 1 2 1 0 1		050	38 0 0 0 0 0 0 0	

SUMMARY
INCIDENCE
OBSERVATIONS,
MICROSCOPIC
(cont.):
Appendix H

TITUTE OF RESEARCH INCIDENCE SUMMARY O ATH SERV GP ANCISCO, CA 94129 PATHOLOGIST(S): ER-344 STARI DA	OBSERVATIONS(NON-MEOPLASMS) PRINTED: GLP63009 L W., Smith, Catherine D STUDY TYPE: CHRONIC/2 YR C
NOTES: ANIMALS = ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS = CONTROLS FROM GROUP(S): 3 ANIMAL S E X: DOSAGE GROUP: T I S S U E S U I T N F I N D I N G S NO. IN GROUP:	A N 1 M A L S A F E C T E D MALES FENALES CTLS 1 2 57 50 55 51 40 52
FEMUR	57 48 55 1 40 51 2 1 1 7 2 2 0 1 0 0 2 0 0 0 0 0
BONE VERT	57 50 55 2 1 1 0 0 0 2 1 0 0 4 0 1 0 0 0 0
SPINAL CORD MUNBER EXAMINED:	56 50 55 51 40 52
ADDREMAL	57 50 55 6 3 6 5 0 1 2 12 1 0 1 2 1 1 0 23 -7 -8 31 17 -16 9 5 10 0 2 6 9 5 10 3 2 6 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0
PITUITARY GLAND	54 46 55 50 40 47 13 1 0 1 3 0
-CORNEAL MINERALIZATION -CORNEAL MINERALIZATION -RETINAL ATROPHY AND/OR DECENERATION, UNILATERAL OR BILATERAL -CORNEAL PIGNENTATION -CORNEAL VASCULARIZATION -CHRONIC KERRATITIS -IRIDOCYCLITIS -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT -CNRONIC COMJUNCTIVITIS	57 46 55 4 3 4 10 6 10 2 2 2 2 1 0 0 0 1 0 0 1 0 39 29 32 13 10 10 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0

MOTE: ENTRIES FLAGGED WITH A - (MIMUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLNGGOROV-SMIRNOV TWO-TAILED TEST.

Appendix H (cont.): MICROSCOPIC OBS	OBSERVATIONS,	ONS,	INCIDENCE		SUMMARY	*
LETTERNAM ARMY INSTITUTE OF RESEARCH INCIDENCE SUMMARY OF MICROSCOPIC OBSERVATIONS(NON-NEOPLASMS) DIV OF RES SUPP, PAIN SERV GP PRESIDIO OF SAN FRANCISCO, CA 94129 PATHOLOGIST(S): MELLICX, PAUL W., Smith, Catherine D SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	C OBSERVATI : GLP83009 JL W., Smit	ONSCHON-H	(EOPLASMS) fine D STUDY TYPE:	CHRONI	PRINTE PAC C/2 YS	PLASHS) PRINTED: 22-NOV-89 PAGE: 8 He D STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
NOTES: ANIMALS # ALL DEAD FROM 30-JAN-85 TO 15-FEB-86 CTLS # CONTROLS FROM GROUP(S): 3 ANIMAL S E X: DOSAGE GROUP: T I S S U E S W I T M F I M D I M G S MO. IN GROUP:	CTLS 1 50 57 50	2 2 55	₩	51.5 51.5 51.5	E D	22.52
EAR NUMBER EXAMINED: -OTITIS MEDIA, SUPPURATIVE	56 49 0 2	% o		2 -	9 0	52 0
AD SEBACIOUS	67 95	53	_	20	38	51
ABDOWINAL WALL	••	••		••	00	••
THORAX MURBER EXAMINED:	0	0	_	•	~	0
WHOLE BODY	57 50 1 0	7 0		24	4 0	. 25
MEDIASTIMUM	4-R 68-	~~0		0	70-	0 - 0
ABDOWINGL CAVITY	0 0 0 1 2	ФM		• •	50	-0
DIAPMRAGM	0 45	5 5		00	38	22.2
NOTE: ENTRIES FLAGGED WITH A - (MINUS) ARE SIGNIFICANTLY DIFFERENT FROM CONTROL AT THE 0.05 LEVEL USING KOLMOGOROV-SMIRNOV TWO-TAILED TEST.	CONTROL A	T THE 0.0	S LEVEL USING	KOLMOGOROV	OROV-S	N I R I O V

GENERAL DIAGNOSES

In this study there were a few lesions which occurred repeatedly and involved numerous organs and tissues. The histologic characteristics of these lesions had very little to do with their location or organ of involvement. Repetition of morphologic descriptions and diagnostic criteria for these lesions under each organ in this glossary would be redundant. Therefore, these lesions are described here under the heading of "General Diagnoses," and will be referred to as appropriate under the organs in which they occurred.

- 1. COMPOUND-RELATED INFLAMMATORY REACTION The test material was applied directly to the capsular surface of the liver as a liquid, and allowed to polymerize. In many instances, especially in animals in the high dose group, the unpolymerized material ran off the liver and adhered to adjacent abdominal viscera where polymerization occurred. In histologic sections, the test material is a clear, slightly yellow homogeneous crystalline material. The material stimulates a granulomatous foreign-body inflammatory reaction characterized by infiltration of macrophages, lymphocytes, and large multinucleated foreign-body giant cells within abundant fibrous connective tissue. Usually this lesion is limited to the serosal surface of abdominal viscera. In some cases, there is necrosis of underlying tissues and penetration of the serosal surface by the inflammatory response accompanied by regenerative hyperplasia of cells of the organ involved. The most probable reason for the necrosis, when it occurred, is the local compromise of circulation by the presence of the test material or the reaction to it. No attempt is made to grade the severity of such lesions. They are simply coded as "Present." diagnosis is used only when there is unequivocal evidence of the presence of test material. In cases where test material is not present, a different diagnosis such as "Fibrosis" or "Chronic Inflammation" is used, as appropriate.
- 2. LARGE GRANULAR LYMPHOCYTE LEUKEMIA This is a common neoplastic disease of Fischer-344 rats. Although the primary site for this lesion is probably the spleen, leukemic involvement frequently occurs early in the disease, and neoplastic lymphocytes can be found in vascular spaces of virtually every organ and tissue in the body. The neoplastic cells are large, round lymphoid cells with abundant, finely

granular, weakly eosinophilic cytoplasm. Mitotic figures, many of which are large and bizarre, are numerous. Because of the characteristics of the Xybion computerized data acquisition system, the primary site for this neoplastic disease is coded under WHOLE BODY, thus documenting the presence of the disease regardless of the organs involved. It is coded as a metastatic lesion only in those organs in which it alters normal histologic architecture or constitutes a significant histologic feature. Using this method of computer entry, it is possible to tabulate the occurrence of this disease and document the significant organs involved, without causing duplication in incidence data.

- 3. PRESENCE OF METASTATIC SARCOMA A number of the animals developed sarcomas within the fibrous, granulomatous reaction incited by the test material. The sarcomas involve many organs in some animals, either through local invasion of malignant cells or by metastasis. The histologic characteristics of these tumors are extremely variable. entire spectrum of histologic differentiation of mesenchymal tissue is represented in this group of tumors. Some tumors are well-differentiated fibrosarcomas, osteosarcomas, or myxosarcomas, while others are very anaplastic and poorly differentiated. In some lesions, multiple types of histologic differentiation occur in the same tumor. liver is the most frequent location for these lesions, but it is not involved in every case. Therefore, the primary site for these lesions is coded as the ABDOMINAL CAVITY, and the involvement of each individual organ is coded as a metastatic lesion. Using this method of computer entry it is possible to tabulate the occurrence of these sarcomas and document the organs involved without causing duplication of incidence The morphologic characteristics and histologic differentiation of each tumor are documented under the ABDOMINAL CAVITY using the "special histologic comments" feature of the Xybion program. This diagnosis is used only when it is certain that the sarcoma developed within the reaction to the test material. Sarcomas that developed outside the abdominal cavity or in areas remote to the application of the test material are not included under this diagnosis.
- 4. PRESENCE OF METASTATIC NEOPLASM This diagnosis is used in cases in which neoplastic cells (other than sarcoma or large granular lymphocyte leukemia) are present in organs or tissues other than those of the site of origin. The lesion

is coded as + with the two-letter abbreviation of the organ of origin. Example: an adenocarcinoma of the thyroid that has metastasized to the lung is coded under lung as PRESENCE OF METASTATIC NEOPLASM +TH.

BRAIN

- 1. ASTROCYTOMA A neoplastic proliferation of astrocytes. The tumor is composed of large and medium-sized cells with large vesicular nuclei and cytoplasm that is not usually intensely stained. Cytoplasm consists of numerous fibrils which are tangled and crisscross in various directions. No particular growth pattern is characteristic. These tumors are usually small and well demarcated from adjacent tissue which may be compressed or undergo liquefaction necrosis.
- 2. HYDROCEPHALUS Enlargement or dilation of the ventricles of the brain at the expense of adjacent parenchyma which undergoes pressure atrophy or liquefaction necrosis.
- 3. LIQUEFACTION NECROSIS A necrotic area in the central nervous system. Necrotic tissue has been liquified. The area appears microscopically as an unlined empty space with frayed and irregular edges. Cells immediately adjacent to the liquified area may show evidence of necrosis. Pink-staining proteinaceous precipitate, lipofuscin-laden "gitter" cells, red blood cells, neutrophils, and remnants of destroyed tissue may or may not be present. The severity of the lesion is graded based on size of the necrotic area:
 - 1 = Diameter is less than than that of a 40X
 microscopic field.
 - 2 = Diameter is less than a 20% field.
 - 3 = Diameter is less than a 10X field.
 - 4 = Diameter is less than a 4X field.
- 4. PITUITARY TUMOR INVASION Presence of neoplastic cells from the anterior pituitary in, or adjacent to and compressing brain tissue. These tumors do not usually metastasize but may compress and destroy brain tissue locally. Infiltration of meninges and ventricular spaces of the brain may occur and is included under this diagnosis.
- 5. PERIVASCULAR LYMPHOCYTIC CELLULAR INFILTRATION Presence of non-neoplastic lymphocytes in perivascular spaces.

Severity grade criteria:

- 1 = Detectable.
- 2 = Involvement of an area up to size of 20X
 microscopic field.
- 3 = Cuffs are three cell layers thick and involve area greater than 20X microscopic field.
- 4 = Cuffs are more than three cells thick and/or area of involvement is greater than 10X microscopic field.
- 6. GLIOSIS Non-neoplastic proliferation of fibrous astrocytes and possibly other glial cells. Appears microscopically as a focal or diffuse increase in glial nuclei and increased density of internuclear areas. This lesion frequently occurs at the periphery of areas of liquefaction necrosis but is not limited to such areas. Severity grade criteria:
 - 1 = Detectable, area less than one 40% field.
 - 2 = Area less than one 20% field.
 - 3 = Area less than one 10X field.
 - 4 = Area less than one 4X field.
 - 5 = Area greater than one 4X field.
- 7. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See "General Diagnoses" above.
- 8. HISTIOCYTIC INFILTRATION, PERIVASCULAR Presence of non-neoplastic histiocytes in perivascular spaces. The lesion is coded as "Present."

TRACHEA

Tracheal glands are dilated in almost every animal examined in the second year of this study. Since this change is universal in animals in all treatment groups, it is considered a normal aging change for this population and is not coded.

1. NONSUPPURATIVE TRACHEITIS - Presence of mononuclear inflammatory cells within or beneath the tracheal epithelium and/or within the tracheal wall.

Severity grade criteria:

- 1 = Presence of a few mononuclear cells within or beneath the tracheal epithelium.
- 2 = Inflammatory cell infiltration of the tracheal mucosa is prominent. Submucosal glands may be infiltrated.
- 3 = Diffuse infiltration of the mucosa and submucosa with inflammatory cells in the tracheal lumen.
- 4 = Same as Grade 3 plus destruction of mucosal and/or submucosal structures.
- 5 = Inflammatory infiltrate and destruction of normal structure throughout the thickness of the tracheal wall.
- 2. PRESENCE OF METASTATIC NEOPLASM See "General Diagnoses" above.
- 3. SUPPURATIVE TRACHEITIS An acute inflammatory process characterized primarily by neutrophils within the trachea. Severity grade criteria:
 - 1 = Presence of a few neutrophils within and beneath the tracheal epithelium.
 - 2 = Neutrophilic infiltration of tracheal mucosa and submucosa is prominent. Submucosal glands may be infiltrated.
 - 3 = Neutrophils are present in the tracheal lumen and diffusely infiltrate mucosa and submucosa.
 - 4 = Similar to Grade 3 plus destruction of mucosal and submucosal structures.
 - 5 = Neutrophilic infiltrate and destruction of normal structure throughout the thickness of the tracheal wall.

THYROID GLANDS

- 1. FOLLICULAR HYPERTROPHY/HYPERPLASIA Non-neoplastic proliferation of thyroid follicular cells. Cells may be increased in size, number, or both. Hyperplastic epithelium may form follicles containing colloid, or form papillary fronds supporting multiple layers of cells that extend into large follicles. The lesion is coded as "Present."
- 2. ADENOMA, FOLLICULAR A benign tumor of thyroid follicular cells characterized primarily by cords of cells or cells

forming follicular structures. These tumors are well-demarcated, expansile lesions which cause compression and atrophy of adjacent thyroid parenchyma.

- 3. PARAFOLLICULAR CELL HYPERPLASIA (C-CELL HYPERPLASIA) Focal or diffuse non-neoplastic proliferation of parafollicular cells. Foci of hyperplastic cells are no larger than a normal thyroid follicle. There is no compression of adjacent thyroid tissue. Severity grade criteria:
 - 1 = One to three nodules or less than 25% diffuse
 glandular involvement.
 - 2 = Three to six nodules or less than 50% diffuse involvement.
 - 3 = Six to ten nodules or more than 50% diffuse involvement.
 - 4 = More than ten nodules or more than 75% diffuse involvement.
- 4. PARAFOLLICULAR CELL ADENOMA Benign tumor of parafollicular or "C" cells. These tumors are usually solid in cellular arrangement, and are large enough to compress adjacent tissue. There is no evidence of invasion of the thyroid capsule or adjacent tissues. Cellular pleomorphism may be prominent, but cells are usually uniform and slightly elongated with ovoid or almost spherical nuclei. Cytoplasm is sparse, homogeneous, or finely granulated and stained weakly eosinophilic. Mitotic figures are rare.
- 5. PARAFOLLICULAR CELL ADENOCARCINOMA Malignant neoplastic proliferation of parafollicular or "C" cells. Cellular morphology may vary little from adenoma described above. Fusiform and palisade patterns occur frequently. Criteria for malignancy is based on invasion of thyroid capsule and/or infiltration of adjacent tissue or metastasis.
- 6. FOLLICULAR ADENOCARCINOMA Malignant neoplastic proliferation of follicular cells of the thyroid. Microscopic patterns are similar to those of follicular adenomas. There is usually very little structural and cellular pleomorphism, and moderate, even low mitotic activity. The consistent feature that distinguishes follicular adenocarcinomas from the analogous type of benign tumor is their invasiveness. These tumors invade the thyroid capsule, adjacent tissues, lymphatics, and blood vessels.

7. COLLOID CYST - Presence of greatly enlarged (over twice the size of an average follicle) colloid-filled cystic space within the thyroid gland. Epithelial cells lining such cysts are usually flattened. One or more colloid cysts may occur within a single thyroid gland.

PARATHYROID GLANDS

No gross or microscopic lesions were recognized in parathyroid glands of rats used in this study.

ESOPHAGUS

- 1. NECROHEMORRHAGIC ESOPHAGITIS Necrosis and hemorrhage accompanied by acute suppurative inflammation in the esophagus. This was an uncommon lesion in Study GLP 83009. When it did occur, it could be attributed to obstruction of the esophagus by test material and attendant granulomatous inflammatory response and fibrosis at, or near, the esophageal hiatus of the diaphragm. Severity grade criteria:
 - 1 = Small focal area of necrosis limited to the esophageal mucosa and a mild local neutrophilic infiltrate.
 - 2 = Large area of necrosis extending through the mucosa into the submucosa with prominent suppurative exudate and hemorrhage.
 - 3 = Similar to grade 2 but necrosis and hemorrhage extend into the muscular wall of the esophagus.
 - 4 = Necrosis, hemorrhage, and suppurative exudate extend throughout the thickness of the esophageal wall. There is destruction of large amounts of esophageal tissue throughout its thickness.

SALIVARY GLANDS

Parotid, mandibular, and sublingual glands were examined routinely. The gland in which the following lesions were observed are identified by notations in the special histologic comments on the Xybion program.

1. ATROPHY AND LOSS OF ACINAR TISSUE - This lesion consists of absence of acinar secretory cells. Affected lobules consist of ductal structures in a fibrovascular stroma. Such lesions are usually focal, affecting a small lobule of salivary tissue.

Severity grade criteria:

- 1 = One lobule affected.
- 2 = Two or three lobules affected.
- 3 = Four to six lobules affected.
- 4 = More than six lobules affected.
- 2. INFLAMMATION, SUBACUTE Presence of focal or diffuse infiltrations of inflammatory cells (primarily lymphocytes, macrophages, and plasma cells) possibly accompanied by minimal to moderate loss of glandular tissue through necrosis. Severity grade criteria:
 - 1 = One to three foci of mononuclear cells no larger than the diameter of a secretory acinus.
 - 2 = Four to six mononuclear foci.
 - 3 = Six to ten inflammatory cell foci or up to two foci of necrosis no larger than the diameter of a secretory acinus.
 - 4 = More than ten inflammatory cell foci and/or more than three foci of necrosis or diffuse inflammatory involvement of more than 50% of the salivary gland.
- 3. ADENOCARCINOMA Malignant neoplastic growth of salivary glandular or ductal epithelium. Neoplastic cells are arranged in cords, nests, or acini often forming papillary fronds or large glandular spaces filled with granular basophilic secretory product. Cells are cuboidal to columnar with pale-staining granular cytoplasm and round to slightly oval vesicular nuclei. Neoplastic cells are usually rather well differentiated and without pleomorphism. Mitotic figures are not numerous. A small amount of fibrous stroma is present and neoplastic epithelial cells infiltrate this tissue. In some of the cystic glandular spaces there are red blood cells and brightly eosinophilic rhomboid hemoglobin crystals.

LACRIMAL GLAND (HARDERIAN GLAND)

1. INFLAMMATION, SUBACUTE TO CHRONIC - Presence of focal or diffuse infiltrations of lymphocytes, macrophages, and plasma cells, possibly accompanied by minimal to moderate loss of glandular tissue through either necrosis or atrophy. Fibrosis may or may not be present. In most cases there is intraductal accumulation of inspissated secretory material.

Severity grade criteria:

- 1 = One to three foci of mononuclear cells no larger than the diameter of a secretory acinus.
- 2 = Four to six mononuclear foci; fibrosis may be present.
- 3 = Six to ten mononuclear foci with or without fibrosis and no more than two necrotic foci no larger than the diameter of a secretory acinus.
- 4 = More than ten inflammatory/fibrotic foci and/or three or more foci of necrosis, or diffuse inflammation and fibrosis of more than 50% of the gland.
- 2. ATROPHY AND/OR LOSS OF ACINAR TISSUE Absence of acinar secretory cells. Affected lobules consist of ductal structures in a fibrovascular stroma. Such lesions are usually focal, affecting a small lobule of lacrimal gland tissue. Severity grade criteria:
 - 1 = One lobule affected.
 - 2 = Two or three lobules affected.
 - 3 = Four to six lobules affected.
 - 4 = More than six lobules affected.

EXORBITAL LACRIMAL GLAND

- 1. ACINAR ATROPHY Microscopic appearance and grading criteria are identical to that of the Harderian gland described above.
- 2. INFLAMMATION, SUBACUTE TO CHRONIC Microscopic appearance and grading criteria are identical to that of the Harderian gland described above.

HEART

1. CARDIOMYOPATHY - This is a very common lesion in aging Fischer-344 rats. In younger animals, it is usually seen as mild to moderate focal myocarditis. As the rats age, the disease progresses to myocardial degeneration characterized by vacuolation and atrophy of myocardial cells followed by fibrosis and loss of myocardial fibers. The heart is not uniformly affected by these changes.

Severity grade criteria:

- 1 = One to five small foci of lymphocytes between myocardial fibers or around blood vessels.
- 2 = Six to ten foci of lymphocytes and/or minimal
 to mild vacuolar change in myocardial fibers.
 Fibrosis may be present but is limited to less
 than 25% of the section.
- 3 = More than ten foci of lymphocytes and/or vacuolization of myofibers. Mild fibrosis involving no more than 50% of the section.
- 4 = More than half of the section is involved in degeneration and fibrosis. Moderate to severe myofiber atrophy is present.
- 2. ATRIOCAVAL EPITHELIAL MESOTHELIOMA This lesion was not observed in the second year of Study GLP 83009. In the first year of this study, one rat developed this unusual tumor. The lesion was completely described and discussed in the interim report that covered the first year of this two-year study.
- 3. MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES Thickening of the muscular medial layer of the arteries in the myocardium. Severity grade criteria:
 - 1 = Minimal detectable thickening.
 - 2 = Mild thickening, less than twice normal
 thickness.
 - 3 = Moderate thickening of the media, greater than twice the normal thickness, often producing distortion of arterial lumen.
 - 4 = Marked thickening of the media, approximately three times the normal thickness, with marked distortion and constriction of the arterial lumen.
- 4. MURAL THROMBUS Lesion consists of a mass of fibrin intermixed with red blood cells and neutrophils attached to the endocardial surface. Adjacent myocardial cells may undergo degeneration and necrosis and infiltration of inflammatory cells. The lesion is graded as "Present."
- 5. LARGE GRANULAR LYMPHOCYTE LEUKEMIA See "General Diagnoses" above.

6. PRESENCE OF METASTATIC NEOPLASM - See "General Diagnoses" above.

LUNGS

- 1. FOCAL HYPERPLASTIC PROLIFERATION OF TYPE 2 ALVEOLAR EPITHELIAL CELLS WITH OR WITHOUT INFLAMMATORY CELL INFILTRATION Non-neoplastic proliferation of alveolar type 2 cells. This lesion frequently occurs in centriacinar regions of the lung at the junction of conducting airways and exchange tissue. It also occurs near pulmonary adenomas in alveoli whose ventilation has been obstructed by the tumor. In these areas, alveolar septae are lined continuously by type 2 epithelium. Affected alveoli are frequently collapsed. Type 2 cell proliferation is frequently accompanied by infiltration of alveolar macrophages both within affected alveolar lumens and within the interstitium. Severity grade criteria:
 - 1 = Focal lesion less than the diameter of a 20X
 microscopic field.
 - 2 = Lesion is larger than the diameter of a 20X field but smaller than that of a 4X field.
 - 3 = As many as three focal lesions with diameters no larger than that of a 4X field may be present.
 - 4 = More than four focal lesions with diameters as large as a 4X field are present.
- 2. PLEURITIS WITH SUBJACENT CHRONIC PNEUMONIA Presence of inflammatory cells and fibrin on and in the visceral pleura. Inflammatory cells, fibrin, and possibly the replacement of type 1 alveolar epithelium with type 2 cells are present in adjacent pulmonary parenchyma. Severity grade criteria for this lesion are as follows:
 - 1 = Area of inflammation is less than the diameter
 of a 20X microscopic field.
 - 2 = Area of inflammation is greater than a 20X field but less than a 10X field.
 - 3 = Involvement of more than 75% of a lung lobe.
 - 4 = Involvement of the entire area of 2 or more lobes.
- 3. PULMONARY EDEMA Presence of protein-rich (pink-staining) fluid within pulmonary alveoli.

Severity grade criteria:

- 1 = Edema fluid in up to 10 alveoli.
- 2 = Edema fluid in 10-50 alveoli.
- 3 = Edema fluid in 25% to 50% of the alveoli in one lobe.
- 4 = Edema fluid in 25% to 50% of alveoli in 2 or 3 lobes.
- 5 = Edema fluid in more than 50% of the alveoli in all lobes.
- 4. VASCULAR CONGESTION Pulmonary vascular spaces are distended with large amounts of blood. Since the animals that were euthanized were killed by exsanguination while under barbiturate anesthesia, the amount of blood in the pulmonary vasculature is extremely variable. Animals that died naturally have much more blood in their lungs. For these reasons, vascular congestion was coded only when the congestion constituted a prominent histologic characteristic of the lung.
- 5. THROMBUS Presence of a mass of fibrin mixed with red blood cells and leukocytes attached to the lumenal wall of a vessel. Tissues supplied by the thrombosed vessel may undergo ischemic necrosis and infiltration of inflammatory cells. Severity grade criteria for this lesion are as follows:
 - 1 = Thrombus is present; secondary ischemic changes involve fewer than 50 alveoli.
 - 2 = Thrombus is present; secondary ischemic changes involve up to 25% of a lung lobe
 - 3 = Thrombus is present in one to three lobes with ischemic change affecting less than 50% of the tissues in affected lobes.
 - 4 = Thrombus is present in three or more lobes and/or ischemic change affects more than 50% of the tissue in involved lobes.
- 6. MINERALIZATION OF PULMONARY ARTERIES Focal dense deposits of mineral within the wall of large to medium-sized arteries in the lung. Severity grade criteria for this lesion are as follows:
 - 1 = A single focus of mineral which produces no distortion of the vessel wall.

- 2 = Two or three small foci of mineralization which produce no distortion of the vessel wall.
- 3 = Four or more small foci of mineral which distort the vessel wall minimally, or one larger focus which causes moderate distortion of the vessel wall.
- 4 = More than one large focus which causes moderate distortion of the vessel wall.
- 7. PNEUMONIA, GRANULOMATOUS The infiltration of lymphocytes, macrophages, and neutrophils with variable numbers of large multinucleated giant cells. Necrosis may be present in the center of granulomas. These lesions are usually focal or multifocal and are located within centriacinar areas, proximal alveoli, alveolar ducts, and terminal bronchioles. Severity grade criteria for this lesion are as follows:
 - 1 = Less than 10% of the lung tissue affected.
 - 2 = 10% to 25% of the lung tissue affected.
 - 3 = 25% to 50% of the lung tissue affected.
 - 4 = More than 50% of the lung tissue is affected.
- 8. PNEUMONIA, INTERSTITIAL, CHRONIC Presence of chronic inflammation within the pulmonary parenchyma. These inflammatory lesions usually do not have any particular anatomic orientation. They may be focal, multifocal, or diffuse. Lesions consist of infiltrations of macrophages, lymphocytes, and neutrophils into the interstitium and alveoli, and the replacement of the normal mature type 1 alveolar epithelial cells with type 2 pneumocytes. Fibrosis of the interstitium may be present in older lesions. Multinucleated giant cells are not present. Severity grade criteria for this lesion are as follows:
 - 1 = Less than 10% of the lung tissue affected.
 - 2 = 10% to 25% of the lung tissue affected.
 - 3 = 25% to 50% of the lung tissue affected.
 - 4 = More than 50% of the lung tissue is affected.
- 9. PERIVASCULAR LYMPHOID AGGREGATIONS (CUFFING) Presence of lymphoid tissue, lymphocytes, primitive reticular cells, and plasma cells in perivascular connective tissue. This diagnosis is used only when definite vascular orientation of the lymphoid tissue is evident. Since severity grading of such a lesion is irrelevant, the lesion is coded only as being "Present."

- 10. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC Presence of neoplastic lymphocytes within the vascular spaces, perivascular tissues, and parenchyma of the lung. This lesion is coded only when large numbers of neoplastic cells constitute a prominent histologic feature and/or when the normal histologic structure of the lung is destroyed or effaced by the presence of neoplastic cells.
- 11. PRESENCE OF METASTATIC NEOPLASM Presence of neoplastic cells (other than lymphocytes or sarcoma cells which have a specific diagnosis) anywhere within the lung. Lesion is coded as + with the two-letter abbreviation for the organ or tissue of the primary site. Example: + TH indicates metastatic neoplasm from the thyroid.
- 12. ALVEOLAR HEMORRHAGE Presence of red blood cells within the alveolar spaces of the lung. In almost all instances in this study, this lesion is caused by aspiration of blood at the time of euthanasia, and is unrelated to the experimental treatment. Severity grade criteria for this lesion are as follows:
 - 1 = Blood in less than 10 alveoli.
 - 2 = Blood in 10 to 50 alveoli.
 - 3 = Blood in 25% of the alveoli.
 - 4 = Blood in 25% to 50% of the alveoli.
- 13. PERIBRONCHIAL LYMPHOID HYPERPLASIA Normal non-neoplastic lymphoid aggregates were present in peribronchial connective tissues of nearly every animal in this study. This lesion is coded only when the amount of lymphoid tissue appears to be excessive. Usually in such cases there are other inflammatory lesions in the lungs. Severity grade criteria for this lesion are as follows:
 - 1 = Detectable increase in lymphoid tissue limited to airway submucosa and/or peribronchial connective tissue.
 - 2 = Increase in submucosal lymphoid tissue which extends through the airway epithelium.
 - 3 = Increase in submucosal and peribronchial lymphoid tissue which distorts or compresses airway lumens or adjacent parenchyma.
 - 4 = Increase in lymphoid tissue which causes moderate to marked compression of airway lumens and adjacent parenchyma.

- 14. BRONCHIOLAR/ALVEOLAR ADENOMA Benign tumor of bronchiolar epithelial or alveolar epithelial origin. These lesions are usually small focal proliferations of cuboidal to columnar epithelial cells which compress adjacent pulmonary tissue. Cells are frequently arranged in long serpentine cords. Cells that are usually very well differentiated and uniform have poorly stained clear cytoplasm and small basally located ovoid nuclei. Few mitotic figures are present.
- 15. PRESENCE OF METASTATIC SARCOMA Presence of neoplastic mesenchymal cells anywhere within the parenchyma of the lung or on the pleural surface. The primary site for these tumors in this study is the abdominal cavity where the tumors develop in the fibrous connective tissue constituting part of the granulomatous foreign-body reaction incited by the presence of the test material. The pulmonary lesions are coded as + AC indicating presence of the metastatic sarcoma in the lung with the primary site being the abdominal cavity. Histologic characteristics of the tumor are documented in special histologic comments under Abdominal Cavity.

THYMUS

- 1. PLEURITIS Presence of acute, subacute, or chronic inflammatory reaction on the surface of the thymus. This lesion includes the infiltration of neutrophils, mononuclear inflammatory cells, and the proliferation of fibroblasts on the surface of the thymus. Severity grade criteria for this lesion are as follows:
 - 1 = Inflammatory lesion less than the diameter of one 40X microscopic field.
 - 2 = Inflammatory lesion less than the diameter of one 20X microscopic field.
 - 3 = Inflammation involves 25% to 50% of the thymus.
 - 4 = Inflammation involves more than 50% of the thymus.
- 2. ADENOMA, ENDOCRINE ORIGIN, NOT OTHERWISE SPECIFIED A small (less than 1 mm in diameter) circumscribed proliferation of cells characterized by finely granular weakly eosinophilic cytoplasm and small, round to ovoid nuclei. Cells are arranged in small nests and cords separated by delicate fibrovascular stroma. The lesion is situated within thymic tissue. Histologically, the cells comprising this small adenoma resemble parafollicular

("C" cells) of the thyroid or cells from the parathyroid glands. Carotid or aortic body origin cannot be ruled out. Only one such lesion was observed in Study GLP 83009.

- 3. THYMOMA Benign neoplastic proliferation of thymic epithelial cells. The lesion is a well-demarcated, unencapsulated proliferation of round to oval cells having eosinophilic cytoplasm with poorly demarcated cellular boundaries and fairly dense round to ovoid nuclei. Mitotic figures are rare. Cells are arranged in nests and bundles separated by very fine fibrous stroma. There are a few widely scattered cells or clusters of cells which are partially keratinized. The lesion is confined to one fairly large lobule of the thymus. There was only lesion of this type observed in Study GLP 83009.
- 4. ADENOCARCINOMA, NOT OTHERWISE SPECIFIED, SITE OF ORIGIN UNDETERMINED This unusual lesion situated within the thymus consists primarily of proliferating epithelial cells and very few lymphocytes. Epithelial cells are arranged in small nests or cords with some papillary forms. The lesion is well demarcated from adjacent fat, but is not encapsulated. Cells have large round to oval vesicular nuclei and abundant eosinophilic cytoplasm with indistinct plasma membranes. Mitotic figures are rare. Scattered throughout the tumor are a few spaces filled with eosinophilic material, a few degenerating epithelial cells, and inflammatory cells. There was only one lesion of this type observed in Study GLP 83009.

SPLEEN

Because of the method of euthanasia used in this study, the amount of blood in the spleen varies considerably. Since this feature has nothing to do with the experimental treatment or toxic effects of the test material, no diagnoses of "splenic congestion" or other indication of the amount of blood in the spleen are recorded.

- 1. LYMPHOID HYPERPLASIA OF SPLENIC CORPUSCLES Non-neoplastic proliferation of lymphoid cells in splenic white pulp and perifollicular areas. Severity grade criteria for this lesion are as follows:
 - 1 = Detectable increase in diameter of splenic corpuscles that exceeds that of the average spleen.

- 2 = Increase in diameter of splenic corpuscles up to twice normal size.
- 3 = Increase in diameter of splenic corpuscles two to three times normal size.
- 4 = Marked increase in diameter of splenic corpuscles such that white pulp areas are nearly confluent.
- 2. FIBROSIS, CAPSULAR Non-neoplastic proliferation of fibrous connective tissue in the splenic capsule. This may be part of an adhesion caused by the test material, but this diagnosis is not used when test material is present. If test material is present, diagnosis #11 below is used. Severity grade criteria for Fibrosis, Capsular are as follows:
 - 1 = Focal area of fibrosis less than diameter of one 40X microscopic field.
 - 2 = Two or three focal areas of fibrosis, similar to those in grade 1, or one area involving 10% to 25% of the surface of a cross-section of spleen.
 - 3 = Fibrosis involving between 25% to 50% of the surface of a splenic cross-section.
 - 4 = Fibrosis involving more than 50% of the surface of a splenic cross-section.
- 3. INFARCTION, CHRONIC Sharply demarcated area(s) of splenic parenchyma comprised primarily of fibrous connective tissue and/or splenic reticular network with variable numbers of red blood cells and hemosiderin-laden macrophages. Severity grade criteria for this lesion are as follows:
 - 1 = One focal area of infarction approximating the area of one 40X microscopic field.
 - 2 = One or more areas of infarction whose total area is between 10% to 25% of the cross-sectional area of the spleen.
 - 3 = One or more areas of infarction occupying 25% to 50% of the cross-sectional area of the spleen.
 - 4 = One or more areas of infarction occupying more than 50% of the cross-sectional area of the spleen.
- 4. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC This common neoplastic disease of Fischer-344 rats usually begins in the spleen. In very early cases, there is a decreased

number of normal lymphoid cells in white pulp (lymphoid depletion), and proliferation of neoplastic lymphocyte3 in red pulp areas. Neoplastic cells are large, round, and have abundant finely granular, weakly eosinophilic cytoplasm and large round vesicular nuclei. Mitotic figures are numerous and some of these are large and bizarre. As the disease progresses, the numbers of neoplastic cells increase greatly, causing severe splenic enlargement. Infarction and necrosis are common in severely affected spleens. Because of the features of the Xybion® program, the primary site for this entity was coded under Whole Body, and each organ having significant involvement was coded as having a metastatic lesion.

- 5. EXTRAMEDULLARY HEMATOPOIESIS In most of the animals in this study, only a few hematopoietic cells are present in the spleen. This diagnosis is used only in the few animals having fairly large numbers of hematopoietic cells in the spleen. No attempt is made to indicate the severity of this change. The lesion is indicated as "Present."
- 6. HEMOSIDERIN PIGMENTATION (RED PULP) Most rats in this study have small amounts of hemosiderin pigment in splenic red pulp. However, this finding is coded only when there appears to be substantially more pigment present than in the average rat spleen. The change is graded as "Present" with no attempt to quantify it with a severity grade.
- 7. SMOOTH MUSCLE HYPERTROPHY, CAPSULE AND TRABECULAE Presence of increased size of smooth muscle cells within trabeculae and capsule increasing the thickness of these structures. Change coded as "Present" with no attempt to grade severity.
- 8. HISTIOCYTIC INFILTRATE, CAPSULE AND OMENTUM Presence of histiocytes on the splenic capsule and adjacent omentum. Graded as "Present."
- 9. BENIGN HYPERTROPHIC NODULE One or more sharply demarcated nodules which elevate the splenic capsule and consist of non-neoplastic proliferation of lymphoid cells. Some of these structures may resemble greatly enlarged splenic corpuscles except that the central artery is usually absent. This lesion is graded as "Present."
- 10. PRESENCE OF METASTATIC SARCOMA See comments and

description under "General Diagnoses" above.

- 11. COMPOUND-RELATED INFLAMMATORY REACTION See comments and description above under "General Diagnoses."
- 12. PRESENCE OF METASTATIC NEOPLASM See comments and description above under "General Diagnoses."

LYMPH NODES

In routine histologic evaluation of animals from this study, the mediastinal nodes, mesenteric nodes, and nodes in the cervical connective tissue adjacent to salivary glands (collectively referred to as "cervical nodes") were examined. Diagnoses for all nodes are coded under the single heading "lymph nodes" in the Xybion computer program. The specific nodes having a coded lesion are annotated in "special histologic comments" section of the program.

- 1. LYMPHOID HYPERPLASIA Non-neoplastic proliferation of lymphoid cells in cortical and perifollicular areas of the lymph node. Severity grade criteria for this change are as follows:
 - 1 = Detectable increase in diameter of lymphoid follicles.
 - 2 = Increase of lymphoid follicles up to twice normal size.
 - 3 = Increase of lymphoid follicles to two or three times normal size.
 - 4 = Nearly confluent proliferation of lymphoid cells in cortex of the node.
- 2. RED BLOOD CELLS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES Finding is self-explanatory. Graded as "Present."
- 3. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See description and comments under "General Diagnoses" above.
- 4. HISTIOCYTIC INFILTRATION, SUBCAPSULAR AND MEDULLARY SINUSES Lymph nodes from most rats in this study have moderate numbers of histiocytic cells in medullary areas. This finding is coded only when these cells are very numerous. The change is coded as "Present."

- 5. REACTIVE HYPERPLASIA Non-neoplastic, noninflammatory increase in cellularity in lymph nodes. Lymphoid follicles are increased in size and number. There are increased numbers of cells in perifollicular areas of the cortex. Medullary cords and sinuses frequently contain large numbers of plasma cells. Eosinophilic protein-rich edema fluid may be present. Change is coded as "Present."
- 6. PRESENCE OF METASTATIC NEOPLASM See description and comments under "General Diagnosis" above.
- 7. DILATED AND/OR CYSTIC MEDULLARY SINUSES Self-explanatory. Coded as "Present."
- 8. PRESENCE OF METASTATIC SARCOMA See description and comments under "General Diagnoses" above.

LIVER

- 1. COMPOUND RELATED INFLAMMATORY REACTION See description and comments under "General Diagnoses" above.
- 2. BILE DUCTULE EPITHELIAL HYPERPLASIA/CHOLANGIOFIBROSIS Non-neoplastic proliferation of bile ducts frequently accompanied by periportal fibrosis. Fibrosis is considered a part of this lesion and is not coded separately. This is a very frequently observed lesion in rats in this study. The change is usually fairly uniform in different lobes of the liver. Severity grading is based on the number of bile ductule cross sections (lumens) in the average portal triad:
 - 1 = Three lumens.
 - 2 = Four to 15 lumens.
 - 3 = 15 to 25 lumens.
 - 4 = More than 25 lumens.
- 3. HEPATITIS Subacute inflammatory lesions in the liver. These lesions are usually focal or multifocal in this study. They consist of small focal accumulations of macrophages, lymphocytes, and occasional neutrophils within the hepatic parenchyma. Necrosis or degeneration of hepatocytes within these inflammatory cell foci are observed occasionally. Severity grade criteria are based on the number of inflammatory cell foci present:
 - 1 = One to three foci.

- 2 = Four to 10 foci.
- 3 = Ten to 20 foci.
- 4 = More than 20 foci.
- 4. NON-NEOPLASTIC FOCI AND AREAS OF CELLULAR ALTERATION -Three distinctive foci or areas of cellular alteration are present in livers of rats in this study. These lesions are named for the morphologic characteristics of their component cell populations, e.g., basophilic cell foci, clear cell foci, or eosinophilic cell foci. These lesions usually consist of a uniform cell type, although they may occasionally contain mixtures of cell types. Lesions equal to or smaller than the size of a liver lobule are foci while a lesion larger than a lobule is called an area. Cellular arrangement within these lesions varies little from normal hepatic parenchyma. The cellular appearance and staining characteristics within these lesions is distinctly different from adjacent normal cells. Hepatic cords of the lesion merge imperceptibly with those of the surrounding tissue without compression. Foci or areas of cellular alteration may be single or multiple, and different morphologic types may occur in the same liver section. Their distribution within the liver is not uniform, and they may coexist with any other type of hepatic lesion.
- 4A. FOCUS OF CELLULAR ALTERATION, BASOPHILIC CELLS Cells are usually slightly smaller than normal and cytoplasm is distinctly basophilic in hematoxylin and eosin stained sections. The plates of hepatocytes may be tortuous due to increased numbers of cells.
- 4B. FOCUS OF CELLULAR ALTERATION, CLEAR CELLS A sharply demarcated focus or area of cells having a clear zone around the nucleus in which, in appropriately stained sections, glycogen can be demonstrated. Cells may be of normal size or enlarged.
- 4C. FOCUS OF CELLULAR ALTERATION, EOSINOPHILIC CELLS A well-demarcated focus or area of hepatocytes which have acidophilic cytoplasm causing a "ground glass" appearance. Inclusions may be present in the cytoplasm. Such cells are usually enlarged with enlarged nuclei and prominent nucleoli. Cords may be slightly irregular. Severity grade criteria for these lesions are as follows:

^{1 =} One focus.

- 2 = Two to four foci, or one area alone or in combination with 1 to 4 foci.
- 3 = Five to eight foci, or two to three areas.
- 4 = Eight or more foci, or four or more areas.
- 5. HEPATOCYTIC VACUOLATION Presence of small to large intracytoplasmic vacuoles within hepatocytes. In sections appropriately prepared and stained, fat can be demonstrated. Such change is not uniform within the liver. Severity grade criteria for this change are as follows:
 - 1 = Minimal detectable involvement.
 - 2 = 10% to 20% of the hepatocytes are vacuolated.
 - 3 = 20% to 40% of the hepatocytes are vacuolated.
 - 4 = More than 40% of the hepatocytes are vacuolated.
- 6. TELANGIECTASIS Dilatation of hepatic sinusoids. Dilated sinusoids are usually filled with blood. Severity grade criteria for this lesion are as follows:
 - 1 = Focal dilatation of sinusoids occupying a diameter of one 40X microscopic field.
 - 2 = Widely scattered multiple foci occupying an area of one 40X microscopic field.
 - 3 = 10% to 20% of the liver section affected.
 - 4 = More than 20% of the liver section affected.
- 7. NECROSIS Death of hepatocytes. This diagnosis is used to indicate necrosis of hepatocytes without any particular anatomic pattern. Necrosis is designated as either focal or multifocal, and a severity grade is indicated. See Necrosis, Periacinar and Necrosis, Hepatocytic, Individual Cells below for necrotic lesions having specific anatomic patterns of distribution. Severity grade criteria for the diagnosis, Necrosis, are as follows:
 - 1 = Necrotic area is no larger than a 40X
 microscopic field.
 - 2 = Combined areas of focal or multifocal necrotic lesions are less than 10% of the liver section.
 - 3 = Combined areas of focal or multifocal necrotic lesions are 10% to 20% of the liver section.
 - 4 = Combined areas of focal or multifocal necrotic lesions are 20% to 40% of the liver section.

- 5 = Combined areas of focal or multifocal necrotic lesions are greater than 40% of the liver section.
- 8. FIBROSIS, CAPSULAR, (NO COMPOUND) Presence of increased fibrous connective tissue on the capsule of the liver. There is minimal inflammatory cell infiltration and no foreign-body giant cells. This lesion is coded as "Present."
- 9. PERIPORTAL MONONUCLEAR CELLULAR INFILTRATION Presence of lymphocytes, macrophages, and plasma cells in the periportal connective tissue. Severity grade criteria for this lesion are as follows:
 - 1 = Small, widely scattered foci not to exceed more than three foci per liver section.
 - 2 = Four to six small foci of mononuclear cells.
 - 3 = Six to 10 small foci or presence of three or more foci that are as large as a liver lobule.
 - 4 = More than ten small foci or more than four large foci.
- 10. CYSTIC DEGENERATION Presence of focal or multifocal areas characterized by cysts with pale eosinophilic amorphous material, hepatocytes that are enlarged by the presence of clear cytoplasmic vacuoles, and an occasional necrotic hepatocyte. There may be slight peripheral compression of adjacent hepatic parenchyma. The lesion is coded as "Present."
- 11. HEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) Presence of diffuse areas in which hepatocytes show some or
 all of the following changes: cellular enlargement, nuclear
 enlargement, nuclear hyperchromasia, multiple nuclei,
 microvesicular cytoplasmic change. Affected hepatocytes are
 in normal arrangement and necrosis is not present. This
 change occurs most frequently in livers severely affected
 with large granular lymphocyte leukemia. Severity grade
 criteria are based on both the number of hepatocytes affected
 (percent of sectional area) and the severity of the
 cytological abnormalities listed above:
 - 1 = Minimal cytological abnormality affecting less
 than 10% of the section.
 - 2 = Mild cytological abnormalities and/or more than 20% of the section affected.

- 3 = Moderate cytological abnormalities and/or more than 40% of the section affected.
- 4 = Marked cytological abnormalities and/or more than 50% of the section affected.
- 12. NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS Presence of coagulative necrosis of individual hepatocytes. There is no specific anatomic orientation or pattern to the necrotic lesion. This lesion is most frequently observed in cases of large granular lymphocyte leukemia or the nonspecific multifocal hepatitis described in diagnosis \$3 above. Occasionally, necrotic cells are present within areas of hepatocytic vacuolization and adjacent to areas of compound-related inflammatory reaction. Severity grade criteria are based on the number of necrotic hepatocytes per high power microscopic field:
 - 1 = One to three necrotic cells per high power
 field. The area affected is limited to that of
 a 20X field.
 - 2 = One to three necrotic cells per high power field, with large diffuse areas of involvement.
 - 3 = Four to six necrotic hepatocytes per high power field; diffuse area of involvement.
 - 4 = More than seven necrotic hepatocytes per high power field; diffuse involvement. If necrosis involves foci of hepatocytes rather than individual cells, the diagnosis of NECROSIS (\$7 above) is used with appropriate distribution modifier and severity grade.
- 13. BENIGN HYPERPLASTIC NODULE(S) Spherical proliferation of hepatocytes without cytologic atypia. Normal hepatic architecture is present but it may be distorted; portal triads may be present. There is mild compression of adjacent parenchyma. Hepatocytes within a focus of hyperplasia are usually uniform and have a homogeneous growth pattern, but features such as hypertrophy, cytoplasmic vacuolation, and increased numbers of mitoses may be present. Often the distinction between focal hyperplasia and a focus of cellular alteration rests solely on the degree of cytologic alteration and compression of adjacent parenchyma. Hyperplastic lesions may reach several millimeters in diameter and are frequently seen as relatively distinct lesions in histologic sections. The lesion is coded as "Present" with an indication of multifocal distribution if multiple lesions are present.

- 14. NECROSIS, PERIACINAR Coagulative necrosis of hepatocytes with a definite orientation around central veins. In more severe cases the necrotic change may bridge from central vein to central vein, or from central vein to portal areas. Stromal collapse may occur; the necrotic area may be filled with blood. Variable numbers and types of inflammatory cells may be present. Adjacent lobules and/or the capsule may be distorted. Changes are usually uniform with most or all the lobules affected. Severity grade criteria:
 - 1 = Minimal detectable necrosis around central
 veins.
 - 2 = Definite necrosis involving nearly all periacinar hepatocytes in nearly all lobules.
 - 3 = Bridging of periacinar areas by necrotic cells and accompanying inflammatory cells.
 - 4 = Necrosis and bridging of periacinar areas with stromal collapse and blood pooling.
- 15. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See comments and description under "General Diagnoses" above.
- 16. FIBROSIS, PARENCHYMAL (SCARRING) Presence of fibrous connective tissue and minimal inflammatory cell infiltrate within the liver parenchyma. This lesion occurs most frequently near areas of compound-related inflammatory reaction. Severity grade criteria:
 - 1 = An area of fibrosis no larger than that of a
 40X microscopic field.
 - 2 = A fibrotic area as large as a 20X microscopic field.
 - 3 = A fibrotic area as large as 2 to 4 liver lobules.
 - 4 = A fibrotic area larger than 5 liver lobules.
- 17. HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION Microscopically, this lesion consists of microvesicular cytoplasmic change in hepatocytes, rupture and disintegration of affected cells, consequent enlargement of adjacent sinusoids, and the presence of nearly colorless to light blue mineralized crystals. The lesion usually has a focal or multifocal distribution. Frozen sections stained with oil-red-O or Sudan Black demonstrate the presence of fat in vacuolated hepatocytes near the dilated sinusoids. Numerous crystals

are present in these areas. Sections stained with Alizarin Red-S and Von Kossa stain demonstrate that the crystals contain both calcium and phosphate. Periodic Acid-Schiff stains are noncontributory. The interpretation of these findings is that fatty degenerative changes in hepatocytes lead to necrosis and subsequent saponification of the accumulated lipid. Severity grade criteria:

- 1 = Changes occur in small widely scattered foci.
- 2 = Foci are more numerous and have a random
 distribution. At least one focus per 20X
 microscopic field is present, but is restricted
 to one liver lobe.
- 3 = At least one focus per 20X field is present in more than one liver lobe.
- 4 = Large numbers of foci (one per 40X field) are present in one or more hepatic lobes.
- 18. PRESENCE OF METASTATIC SARCOMA See comments and description under "General Diagnoses" above.
- 19. HEPATOCELLULAR CARCINOMA Malignant neoplasm of hepatocytic origin. Diagnostic criteria for hepatocellular carcinoma are well documented in the literature. The criteria followed in this study were those of Maronpot et al., Toxicologic Pathology, 14:263-273, 1986. Criteria of importance include cellular atypia, irregular shape, local invasiveness, haphazardly arranged cells, broad sheets of cells, trabecular patterns, and glandlike formations. Vascular invasion or metastases are not essential for making the diagnosis of carcinoma, but may be present. Hemorrhage and necrosis may be present.
- 20. PRESENCE OF METASTATIC NEOPLASM See descriptions and comments under "General Diagnoses" above.

KIDNEY

1. PROGRESSIVE RENAL DISEASE - A progressive complex of degenerative changes affecting all anatomic components of the renal cortex and medulla. Interstitial changes begin as small aggregates of mononuclear inflammatory cells and progress to interstitial fibrosis and focal mineralization. Tubular epithelial cells undergo degenerative changes such as cytoplasmic vacuolization and accumulation of hyaline droplets. Cells may become flattened due to accumulation of

eosinophilic fluid in the lumen, or they may become basophilic and hyperplastic during regenerative attempts. Tubular basement membranes are frequently thickened. Ultimately, both tubular dilatation and atrophy occur. Glomerular changes consist of thickening of Bowman's capsule, pericapsular fibrosis, hypercellularity of the glomerular capillary tuft, and thickening of the mesangial matrix. These changes progress to glomerular sclerosis and/or atrophy with cystic dilatation of Bowman's space. Hyalinization of arteriole walls and mineralization of tubular basement membranes and necrotic tubular epithelial cells may be present in severe stages of the disease. Severity grade criteria:

- 1 = There are occasional aggregates of lymphocytes near small vessels and between tubules. An occasional tubule may be dilated and contain a hyaline cast.
- 2 = More tubules are dilated and contain casts. Tubules have degenerative changes and basement membranes are thickened. Glomeruli may be hypercellular. Up to 25% of the renal cortex is affected.
- 3 = Numerous tubules are dilated and contain hyaline material. Tubular regeneration may be present. Interstitial and periglomerular fibrosis is present. Glomerular tufts are thickened and hypercellular and a few glomeruli are atrophied and dilated. Renal capsular surface is irregular. Up to 50% of the kidney is involved.
- 4 = Tubular dilatation, casts, necrosis, and mineralization are widespread. Marked interstitial fibrosis, glomerular atrophy and dilatation, and irregularities of the capsular surface are present. There is hyalinization of small vessel walls. More than 50% of the kidney is involved.
- 2. SARCOMA, NOT OTHERWISE SPECIFIED Presence of a malignant mesenchymal tumor within the kidney. Only one such lesion was detected in this study in an animal that did not have a sarcoma that developed within the fibrous reaction to the test material. The animal having this lesion is a male in the control group. This lesion is a well-differentiated fibrosarcoma. Since no other lesion of this type can be found in this animal, it is assumed that the kidney is the

primary site.

- 3. HEMORRHAGE, ACUTE Presence of extravasated blood within the kidney. Probably this lesion is induced during necropsy procedures. The lesion is coded only as "Present."
- 4. HEMOSIDEROSIS (BROWN GRANULAR PIGMENT) IN TUBULAR EPITHELIAL CELLS Self-explanatory. This lesion is coded as "Present."
- 5. CYST(S), CORTICAL Presence of one or more cystic spaces within the renal cortex. Cysts are lined by flattened epithelium and may be either empty or filled with pale homogeneous eosinophilic fluid. While this may be a manifestation of progressive renal disease, this lesion is coded separately if the cysts are more than three times the diameter of a renal tubule. The lesion is coded as "Present."
- 6. INFARCT, CHRONIC WITH FIBROSIS, WITH OR WITHOUT MINERALIZATION Presence of well-demarcated, usually wedge-shaped areas in the cortex composed primarily of fibrous connective tissue and a few pigment-laden macrophages. A few degenerating or necrotic tubular epithelial cells and mineral deposits may be present. At the periphery of the lesion there may be an infiltration of mononuclear inflammatory cells and occasional areas of tubular regeneration. The lesion is coded as "Present."
- 7. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See description and comments under "General Diagnoses" above.
- 8. FIBROSIS, CAPSULE Proliferation of non-neoplastic fibrous connective tissue with minimal infiltration of mononuclear inflammatory cells in the renal capsule. The lesion is coded as "Present."
- 9. PRESENCE OF METASTATIC SARCOMA See description and comments under "General Diagnoses" above.
- 10. PRESENCE OF METASTATIC NEOPLASM See description and comments under "General Diagnoses" above.

URINARY BLADDER

1. TRANSITIONAL CELL PAPILLOMA - The presence of a neoplastic

proliferation of transitional epithelium. The cells comprising this tumor are well-differentiated transitional epithelial cells. They are arranged in anastomosing fronds which protrude into the lumen of the urinary bladder. Mitotic figures are not very numerous. An occasional tumor cell is undergoing coagulative necrosis. The tumor is highly vascularized. There is no evidence of neoplastic infiltration into the submucosa of the bladder nor invasion of vessels or lymphatics.

- 2. CHRONIC INFLAMMATORY CELL INFILTRATION Presence of lymphocytes, macrophages, and plasma cells within the mucosa and submucosa of the urinary bladder. Severity grade criteria:
 - 1 = Minimal detectable inflammatory cell infiltration into the submucosa.
 - 2 = Mild inflammatory cell infiltration which may involve both mucosa and submucosa. Less than 25% of the circumference of the bladder is involved.
 - 3 = Moderate infiltration of the mucosa and submucosa causing thickening of these layers and/or involving 25% to 50% of the circumference of the bladder.
 - 4 = Marked thickening of mucosa and submucosa by inflammatory cells involving more than 50% of the circumference of the bladder.

PROSTATE

- 1. ACUTE SUPPURATIVE PROSTATITIS Acute infiltration of neutrophils into glandular or interstitial tissues of the prostate. Necrosis may be present in more severe cases. Severity grade criteria:
 - 1 = Minimal detectable suppurative inflammation involving less than 10% if the prostate.
 - 2 = Neutrophilic infiltration involving 10% to 25% of the prostate.
 - 3 = Neutrophilic infiltration involving 25% to 50% of the prostate. Small areas of necrosis may be present.
 - 4 = Infiltration of neutrophils involves more than 50% of the prostate. Necrotic areas up to the diameter of a 20X microscopic field may be

present.

- 2. CHRONIC PROSTATITIS Infiltration of lymphocytes, macrophages, plasma cells, and a few neutrophils into glandular or interstitial areas of the prostate. The secretory product is frequently inspissated in affected areas and appears as small eosinophilic or basophilic particles intermixed with inflammatory cells. Mineralization may be present. This lesion frequently coexists with hyperplastic changes in the glandular epithelium but the hyperplasia is coded separately since either lesion can occur independently. Severity grade criteria:
 - 1 = Minimal detectable inflammatory cell infiltration.
 - 2 = Inflammatory cell infiltration involves 10% to 25% of the prostate.
 - 3 = Inflammatory cell infiltration involves 25% to 50% of the prostate.
 - 4 = Inflammatory cell infiltration involves more than 50% of the prostate..
- 3. BENIGN HYPERPLASIA Hyperplastic proliferation of the glandular epithelium of the prostate. Secretory cells are larger and more numerous than normal. They may be piled two to three cell layers thick on the basement membrane. There is no cellular atypia and cells are distributed in normal anatomic arrangement. This change may exist with, or independent of inflammatory lesions and thus is coded separately. Severity grade criteria:
 - 1 = Hyperpl stic changes involve up to 10% of the glandular epithelium.
 - 2 = Hyperplastic changes involve 10% to 25% of the epithelium.
 - 3 = Hyperplastic changes involve 25% to 50% of the epithelium.
 - 4 = Hyperplastic changes involve more than 50% of the epithelium.
- 4. MICROCALICULI, PROSTATIC URETHRA Presence of particulate material in the prostatic urethra. The material consists of an amalgam of proteinaceous or mineralized material that has variable staining characteristics presumably due to variations in mineral content. There may be mild infiltrations of mononuclear inflammatory cells within and beneath the urethral epithelium. The lesion is coded as

"Present."

5. PRESENCE OF METASTATIC SARCOMA - See descriptions and comments under "General Diagnoses" above.

COAGULATING GLAND

No lesions were recognized in the coagulating glands of rats used in this study.

SEMINAL VESICLE

- 1. GENERALIZED ATROPHY Presence of atrophic changes in the glandular epithelium of the seminal vesicle. Epithelial cells in affected glands are low columnar to cuboidal, smaller than in normal actively secreting glands, and the meager cytoplasm stains weakly eosinophilic. Glandular lumens contain very little secretory product in contrast to normal glands which are distended with this material. This change is coded as "Present."
- 2. PRESENCE OF METASTATIC SARCOMA See descriptions and comments under "General Diagnoses" above.

EPIDIDYMIS

1. PRESENCE OF METASTATIC SARCOMA - See descriptions and comments under "General Diagnoses" above.

TESTES

- 1. TUBULAR ATROPHY The cells lining seminiferous tubules are reduced in number, and the tubules are reduced in diameter. This change is invariably present in cases of interstitial cell adenoma of the testis. Consequently, this lesion is not coded when an interstitial cell tumor is present, since the presence of the tumor itself indicates that tubular atrophy is present. Tubular atrophy is coded when testicular neoplasia was not present. Severity grade criteria for tubular atrophy are as follows:
 - 1 = There is absence or reduction in the number of spermatozoa or spermatids in seminiferous tubules.
 - 2 = In addition to criteria in grade 1, there is reduction in the innermost layers of spermatogenic cells. A few large multinucleated cells (degenerating

spermatocytes) may be free in the tubular lumens.

- 3 = Only a few spermatogenic cells are present along with a complete layer of Sertoli cells on the basement membrane. Multinucleated cells may be present.
- 4 = There is complete absence of spermatogenic cells. Seminiferous tubules contain only Sertoli cells.
- 2. INTERSTITIAL CELL HYPERPLASIA There is focal or multifocal proliferation of interstitial cells. These are large cells with round nuclei and abundant eosinophilic cytoplasm which may be finely vacuolated. They are situated between seminiferous tubules. The change is considered hyperplasia when foci of interstitial cells are no larger than the diameter of a seminiferous tubule and there is no compression of adjacent tissue. Foci of interstitial cells larger than the diameter of a tubule, or that compress adjacent tissue are coded as interstitial adenomas. If both adenoma and hyperplasia is present, only the adenoma is coded. Severity grade criteria:
 - 1 = One to three foci of hyperplastic interstitial
 cells are present.
 - 2 = Four to six foci are present.
 - 3 = Seven to ten foci are present.
 - 4 = More than ten foci are present.
- 3. MESOTHELIOMA Neoplastic proliferation of mesothelial cells, arranged in multiple papillary fronds, arising from the tunica albuginea of the testis. The papillary structures are supported by a connective tissue stalk that contains blood vessels. The neoplastic mesothelial cells may be arranged in a single layer of flattened cells, or the cells may be cuboidal and piled up to form small nodules. Mitotic figures are usually infrequent.
- 4. INTERSTITIAL CELL ADENOMA A benign tumor of interstitial (Leydig) cells. These tumors are composed of cells of four distinct morphologic types. The most common is a medium-sized hexagonal cell with distinct cell boundaries having eosinophilic cytoplasm surrounding a regular, round or oval vesicular nucleus. The nucleus has a delicate chromatin network and a single small basophilic nucleolus. The second cell type is larger with finely or coarsely vacuolated cytoplasm. A third cell type is small, elongated or spindle

shaped, with granular eosinophilic cytoplasm and variablysized, round, oval, or spindle-shaped nuclei which may be vesicular or pyknotic. The fourth type of cell resembles a lymphocyte with scanty cytoplasm and a small round nucleus with a "wheel-like" chromatin pattern. Neoplastic cells are arranged in cords, fascicles, islands, and nests, and usually show an endocrine pattern of vascularity. The stroma is usually delicate, but may be hyalinized or even calcified. These tumors are highly vascular and often there are large, distended endothelial-lined spaces filled with blood. Invariably, there are secondary lesions in the testis when interstitial cell adenoma is present. Atrophic or degenerative changes affecting seminiferous tubules are almost always present, and hemorrhage, necrosis, and mineralization may occur within the tumor. These lesions are not coded separately when interstitial adenoma is present.

- 5. PERIARTERITIS NODOSA An acute, subacute, or chronic inflammatory lesion involving small or medium-sized muscular arteries in the testis. This lesion is characterized by subendothelial edema, damage to the elastic membrane, fibrinoid or hyaline necrosis of the media, and inflammatory cell infiltration into all layers of the arterial wall. Inflammatory cells are most abundant in the adventitia and are composed of neutrophils, lymphocytes, and plasma cells with fewer macrophages and eosinophils. It occurs as a focal or segmental lesion with some areas of an artery severely affected, and other areas essentially normal. No attempt is made to grade the severity of this lesion. It is coded as "Present."
- 6. PRESENCE OF METASTATIC SARCOMA See descriptions and comments under "General Diagnoses" above.
- 7. PRESENCE OF METASTATIC NEOPLASM See descriptions and comments under "General Diagnoses" above.

UTERUS

- 1. COMPOUND-RELATED INFLAMMATORY REACTION See descriptions and comments under "General Diagnoses" above.
- 2. DILATATION OF THE UTERINE LUMEN (HYDROMETRA) There is dilatation of the uterine lumen which is usually empty. The endometrium and underlying stroma may be slightly atrophic. The lesion is coded as "Present."

- 3. PYOMETRA There is suppurative inflammation involving the uterine lumen, endometrium, endometrial glands, and stroma. Small foci or areas of necrosis may be present in areas severely affected. Severity grade criteria:
 - 1 = Presence of a few neutrophils within the endometrium.
 - 2 = Moderate numbers of neutrophils are present within the endometrium, endometrial glands, and stroma.
 - 3 = Neutrophilic infiltration as in grade 2 and presence of neutrophils within the uterine lumen.
 - 4 = Changes as in grade 3 plus distention of the uterine lumen with suppurative exudate and/or the extension of inflammatory process into the uterine musculature.
- 4. ENDOMETRIAL STROMAL POLYP These lesions consist of polypoid masses which protrude from the uterine wall into the lumen. The mass is covered by essentially normal endometrial surface epithelium. Within the mass there are relatively normal-appearing uterine glands; some may be dilated and cystic. The mass consists primarily of dense or loosely arranged fibrovascular stroma containing collagen and numerous small vessels. Some smooth muscle cells may be present. A few mitotic figures may be present in both stroma and epithelium. Focal ulceration of the epithelium accompanied by inflammatory cell infiltration may be present. The lesion is coded as "Present."
- 5. CYSTIC DILATATION OF ENDOMETRIAL GLANDS Self-explanatory. Coded as "Present."
- 6. LYMPHOCYTIC INFILTRATE Presence of lymphocytes within the endometrium, stroma, or uterine wall. Severity grade criteria:
 - 1 = There are a few lymphocytes within the endometrium.
 - 2 = There is mild lymphocytic infiltrate in the endometrium and around uterine glands.
 - 3 = There are moderate numbers of lymphocytes in the endometrium and endometrial stroma.
 - 4 = The lymphocytic infiltrate involves endometrium, stroma, and extends into the uterine musculature.

- 7. ENDOMETRIAL STROMAL SARCOMA A malignant proliferation of endometrial stromal cells. These are usually highly cellular masses which may protrude into the uterine lumen or invade the uterine musculature. Cells are usually spindeloid with elongated dense hyperchromatic nuclei and scanty amounts of cytoplasm which are either weakly eosinophilic or nearly colorless. Cells are arranged in a variety of patterns including parallel arrays, interlacing bundles, or haphazard proliferations. Cells often are fairly anaplastic and mitotic figures may be numerous. Hemorrhage and necrosis are common especially in the large polypoid masses. The surface epithelium and endometrial glands are usually normal, although inflammation and degeneration of these components may occur. These tumors differ from stromal polyps in their increased cellularity, cellular atypia, and invasiveness. No metastatic lesions of this type were observed in this study.
- 8. ENDOMETRITIS, SUBACUTE Subacute inflammatory reaction involving the endometrium. There is infiltration of neutrophils, lymphocytes, macrophages, and plasma cells into the endometrial epithelium, underlying stroma, and uterine glands. This lesion differs from pyometra (Diagnosis #3) in that the inflammatory cell population is mixed and no suppurative exudate is present in the uterine lumen. The mixed cell population differentiates this lesion from the pure lymphocytic infiltrate described in Diagnosis #6 above. Severity grade criteria for this lesion:
 - 1 = There is minimal infiltration of mixed inflammatory cells in the endometrium.
 - 2 = There is mild infiltration of inflammatory cells in endometrium, and into and around uterine glands.
 - 3 = There is moderated infiltration of inflammatory cells in endometrium and all areas of the stroma. Minimal amounts of necrosis may be present in these areas.
 - 4 There are marked mixed inflammatory cell infiltrate and areas of necrosis that involve endometrium, stroma, and uterine musculature.
- 9. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See descriptions and comments under "General Diagnoses" above.
- 10. DEGENERATION, NECROSIS AND INFLAMMATION OF UTERINE STROMA This unusual lesion is characterized by a abundance of necrotic debris and fibrin within the uterine lumen,

degeneration, necrosis, and proliferation of endometrial stromal cells, dilatation of endometrial glands, moderate mixed inflammatory cell infiltration into all layers of the uterine wall, and the presence of many large cells with abundant poorly stained cytoplasm. These cells are situated primarily on the lumenal surface of the uterus but in some areas extend through the stroma and infiltrate the uterine musculature. Sections stained with periodic acid-Schiff, alcian blue, and mucicarmine stains failed to characterize the cytoplasmic content of these cells. Their identity and character remain unknown. This unusual lesion was observed in only one rat, a female in the Control group that survived until terminal sacrifice. The morphologic characteristics of this lesion do not correspond to the criteria of the other more readily recognized uterine lesions observed in this study, hence this descriptive diagnosis is given.

11. LEIOMYOSARCOMA - A malignant neoplasm of smooth muscle origin. This is a highly cellular tumor characterized by spindeloid cells arranged in interlacing bundles, and situated in the wall of the uterus. The cells are large and spindeloid to fusiform with moderate amounts of eosinophilic cytoplasm and elongated nuclei with blunt or rounded ends. The cells are well differentiated and mitotic figures are not numerous. The tumor infiltrates and separates adjacent normal smooth muscle cells in an irregular fashion and invades the adjacent endometrial stroma.

OVARIES

No attempt is made to document ovarian changes that occur as a result of different stages of the estrus cycle, or that result from normal variations in hormonal stimulation. Only changes considered abnormal are documented in this study.

- 1. FOLLICULAR CYSTS Presence of large cystic structures in the ovarian cortex. Cysts are lined by a layer of granulosal cells which varies considerably in thickness. Degeneration and atrophy of the lining cell layers are common and there may be a few degenerating cells free within the pale eosinophilic fluid that fills the cystic lumen. The cysts are coded as "Present."
- 2. CYSTIC CORPORA LUTEA Presence of cystic structures in the ovarian cortex. Cysts are lined by a layer of luteal

cells that varies considerably in thickness. Degeneration, atrophy, and infiltration of a very few mononuclear inflammatory cells may occur. The lumen of the cyst may be empty or filled with pale eosinophilic fluid. The cysts are coded as "Present."

- 3. PARA-OVARIAN CYST(S) Presence of a cystic structure located adjacent to the ovary but does not involve ovarian tissue. Frequently this lesion consists only of a thin fibrous strand of tissue (the wall of the cyst) which may be lined by a single layer of flat "endothelial-like" cells. Ovaries adjacent to these cysts may be small and atrophic. Para-ovarian cysts are coded as "Present."
- 4. INFLAMMATORY CELL INFILTRATION The presence of lymphocytes, macrophages, plasma cells, or (rarely) neutrophils within ovarian tissues. This lesion is observed infrequently. Severity grade criteria are subjective assessments of the number of inflammatory cells present:
 - 1 = Minimal inflammatory cells present.
 - 2 = Mild inflammatory cell infiltration.
 - 3 = Moderate inflammatory cell infiltration.
 - 4 = Marked inflammatory cell infiltration.
- 5. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See descriptions and comments under "General Diagnoses" above.
- 6. PRESENCE OF METASTATIC NEOPLASM See descriptions and comments under "General Diagnoses" above.

DUODENUM

- 1. COMPOUND-RELATED INFLAMMATORY REACTION See description and comments under "General Diagnoses" above.
- 2. PRESENCE OF METASTATIC SARCOMA See descriptions and comments under "General Diagnoses" above.
- 3. PRESENCE OF METASTATIC NEOPLASM See descriptions and comments under "General Diagnoses" above.
- 4. MUCOSAL EROSION/ULCERATION Necrosis and sloughing of the epithelium on the mucosal surface. In an erosion, the necrosis is limited to the epithelial layer; the basement membrane is intact. An ulceration consists of necrosis that

involves the surface epithelium, extends through the basement membrane, and affects the underlying submucosa. In both lesions, tissues adjacent to necrotic areas are infiltrated with neutrophils, lymphocytes, and macrophages. In chronic ulcers, there may be fibrous connective tissue proliferation and regenerating mucosal epithelium at the periphery of the lesion. These lesions are coded as "Present."

5. PRESENCE OF MUCOSAL EPITHELIAL CELLS WITHIN INTESTINAL WALL AND ADJACENT FIBROUS/GRANULOMATOUS INFLAMMATORY REACTION - In some animals the test material adhered to the intestinal wall inciting the usual foreign-body inflammatory response. In some of these animals, there is chronic ulceration of the epithelium at this location. Microscopic examination reveals the presence of regenerating intestinal epithelial cells in the submucosa, within the muscular layers, in subserosal locations, and within the adjacent chronic granulomatous inflammatory tissue. These entrapped cells have essentially normal histologic characteristics except for their location and occasional degenerative or atrophic changes. There are no indications of cellular atypia, nuclear pleomorphism, or abnormal mitotic activity characteristic of neoplasia. This change is interpreted as regeneration of intestinal epithelium which has migrated into, and become entrapped in an ongoing chronic inflammatory response that affects the entire thickness of the intestinal wall. This lesion is coded as "Present."

JEJUNUM

- 1. COMPOUND-RELATED INFLAMMATORY REACTION See "General Diagnoses" above.
- 2. ACUTE PERITONITIS The presence of neutrophils, fibrin, necrotic debris, and mononuclear inflammatory cells on the serosal surface. No test material, foreign-body giant cells, or fibrosis are present. Severity grade is based on subjective assessment of the intensity and extent of the inflammatory process:
 - 1 = Minimal inflammation.
 - 2 = Mild inflammation.
 - 3 = Moderate inflammation.
 - 4 = Marked inflammation.
- 3. ENTERITIS, SUBACUTE Consists of the infiltration of

lymphocytes, macrophages, plasma cells, and a few neutrophils into the mucosa, lamina propria, submucosa, and muscular wall of the jejunum. In more severe cases there may be small areas of necrosis in the layers involved. Severity grade criteria:

- 1 = Minimal inflammatory cell infiltration in mucosa and/or lamina propria.
- 2 = Mild inflammatory cell infiltration with edema, in mucosa, lamina propria, and extending into the submucosa.
- 3 = A moderate inflammatory infiltrate and edema involves mucosa, lamina propria and submucosa causing increased thickness of these layers. Small foci or areas of necrosis may be present in the mucosa.
- 4 = A marked inflammatory cell infiltrate accompanied by edema, involves mucosa, lamina propria, submucosa, and extends into the muscular coats. Foci or areas of necrosis are present in the mucosa and lamina propria and may involve deeper layers.
- 4. MUCOSAL EROSION/ULCERATION Except for location in the jejunum, this lesion is similar to that described in Diagnosis #4 under DUODENUM above.
- 5. PRESENCE OF MUCOSAL EPITHELIAL CELLS WITHIN INTESTINAL WALL AND ADJACENT FIBROUS/GRANULOMATOUS INFLAMMATORY REACTION Except for location in the jejunum this lesion is similar to that described in Diagnosis #5 under DUODENUM above.
- 6. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 7. FIBROVASCULAR ADHESION, SEROSA Self-explanatory. Minimal inflammatory cell infiltration, no test material and no foreign-body giant cells are present. Lesion is coded as "Present."
- 8. PRESENCE OF METASTATIC NEOPLASM See "General Diagnoses" above.

ILEUM

1. COMPOUND-RELATED INFLAMMATORY REACTION - See "General

Diagnoses" above.

- 2. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See "General Diagnoses" above.
- 3. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 4. LYMPHOID HYPERPLASIA This change involves the gut-associated lymphoid tissue in the ileum, and consists of increased size and number of lymphoid follicles, increased number of large, pale, immature lymphocytes in germinal centers and perifollicular areas, increased mitotic activity in lymphoid cells, and the extension of lymphoid cells from the submucosa into the lamina propria and mucosal layers of the ileum. This change is coded as "Present."
- 5. PRESENCE OF METASTATIC NEOPLASM See "General Diagnoses" above.

PANCREAS

- 1. ACINAR (EXOCRINE) ATROPHY This lesion consists of the absence or reduction in number of acinar secretory cells. Affected lobules contain only ductal structures in a fibrovascular stroma. Such lesions are usually focal affecting a small lobule of pancreatic tissue. Severity grade criteria:
 - 1 = One lobule affected.
 - 2 = Two or three lobules affected.
 - 3 = Four to six lobules affected.
 - 4 = More than six lobules affected.
- 2. CHRONIC INFLAMMATION Infiltration of neutrophils lymphocytes, macrophages, and plasma cells into acinar areas, stromal tissues, and serosal surfaces of the pancreas. There may be variable amounts of edema, fibrin deposition, fibrosis, tissue necrosis, and mineralized deposits in necrotic areas depending on the severity and age of the lesion. Severity grade criteria:
 - 1 = Minimal focal to multifocal inflammatory cell infiltration.
 - 2 = Mild focal to diffuse inflammatory cell infiltrate with or without fibrosis, affecting

up to 50% of the pancreas.

- 3 = A few small foci of necrosis may be present along with moderate inflammatory cell infiltration and fibrosis.
- 4 = Numerous foci or large areas of necrosis which may be accompanied by mineralization. Inflammatory cell infiltrate and fibrosis are marked and diffuse.
- 3. ISLET CELL ADENOMA Benign neoplastic proliferation of pancreatic islet cells. These adenomas are usually nearly spherical proliferations of medium-sized, well-differentiated islet cells. The cells are arranged in small nests, packets, or short cords supported by very delicate fibrovascular stroma. Cytoplasm is weakly eosinophilic and has distinct cellular boundaries. Nuclei are round and fairly small with condensed chromatin. Mitotic figures are sparse. The tumors are discrete and compress adjacent tissues slightly.
- 4. PERIARTERITIS NODOSA An acute, subacute, or chronic inflammatory lesion involving small to medium-sized muscular arteries in the pancreas. The lesion is characterized by subendothelial edema, hyaline, or fibrinoid necrosis of the media, and infiltration of all layers of the arterial wall by inflammatory cells. Inflammatory cell infiltration is most prevalent in the adventitia and consists of neutrophils, lymphocytes, and plasma cells with fewer macrophages and eosinophils. The lesion is usually focal or segmental with some areas of an artery being severely affected and other areas essentially normal. The lesion is coded as "Present."
- 5. ACINAR HYPERPLASIA Focal or multifocal non-neoplastic proliferation of pancreatic acinar secretory cells. Within an affected lobule, there are increased numbers of secretory cells which are either normal size or slightly smaller than normal. The cells are crowded, but are arranged in essentially normal fashion relative to basement membranes. Hyperplastic cells are usually slightly hyperchromatic but often lack normal numbers of zymogen granules. Severity grade criteria:
 - 1 = One pancreatic lobule is affected.
 - 2 = Two or three lobules are affected.
 - 3 = Four to six lobules are affected.
 - 4 = More than six lobules are affected.
- 6. COMPOUND-RELATED INFLAMMATORY REACTION See "General

Diagnoses" above.

- 7. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 8. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC See "General Diagnoses" above.
- 9. PRESENCE OF METASTATIC NEOPLASM See "General Diagnoses" above.
- 10. CYSTIC DUCT Cystic dilatation of one or more ducts within the pancreas. Dilated area is more than three times the diameter of a normal duct. The lumen is usually empty and the lining epithelium may be flattened and atrophic. The lesion is coded as "Present."

CECUM

- 1. COMPOUND-RELATED INFLAMMATORY REACTION See "General Diagnoses" above.
- 2. PERIARTERITIS NODOSA, ARTERIES IN CECAL WALL OR MESENTERY See descriptions and comments for Diagnosis #4 under *PANCREAS* above. The characteristics of the arterial changes are similar in both organs.
- 3. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 4. ADENOMATOUS POLYP This lesion is a large polypoid mass attached to the wall of the cecum by a broad base. The intralumenal surface of the mass is covered by welldifferentiated epithelium arranged in long tortuous tubular The lamina propria between glands is slightly separated by edema and a mild uniform infiltration of lymphocytes and a few plasma cells. The bulk of the mass consists of the underlying stroma which is characterized by numerous endothelial-lined spaces that vary considerably in size and shape. Most of the vascular spaces are small and slit-like, although there are a few that are larger and irregular in shape. Most of these spaces are empty. the vascular spaces there are numerous loosely-arranged fibrocytes and small foci of mononuclear inflammatory cells. A few small muscular arteries are present in this area. Only one lesion of this type was observed in this study. It occurred in a female rat in the control group.

- 5. REACTIVE LYMPHOID HYPERPLASIA, SUBMUCOSA This change is essentially identical to that in the *ILEUM*. See diagnosis #4 under *ILEUM* above for a detailed description.
- 6. EDEMA OF THE SUBMUCOSA AND/OR LAMINA PROPRIA The cellular elements and connective tissue in the submucosa and lamina propria are separated by the presence of weakly eosinophilic edema fluid. This lesion is coded as "Present."
- 7. MONONUCLEAR CELL INFILTRATION The lamina propria and submucosa are infiltrated by small numbers of lymphocytes, plasma cells, and macrophages. The lesion is coded as "Present."

RECTUM

1. FIBROSARCOMA, LOCALLY INVASIVE - These tumors are highly cellular and consist of spindeloid cells with varying amounts of eosinophilic cytoplasm and oval to elongated nuclei. Mitotic figures may be very numerous and large bizarre forms occur occasionally. The cells are arranged in broad sheets, parallel arrays, and interlacing bundles. In more anaplastic tumors, a definite cellular pattern may be difficult to detect. Sections stained with Masson's trichrome stain usually reveal the presence of abundant collagen. The most probable primary site for this tumor is the inguinal or perineal subcutaneous tissue. Three fibrosarcomas were present in this location in Study GLP 83009. All three animals were females; one in the control group, one in the high-dose group and one in the low-dose group. In all three animals, the tumors were confined to the inquinal or perineal subcutis with local invasion of adjacent pelvic viscera. none of these cases was there evidence of the sarcoma elsewhere in the abdominal cavity. No test material or granulomatous inflammatory lesions were observed in association with these perirectal tumors.

COLON

- 1. COMPOUND-PELATED INFLAMMATORY REACTION See "General Diagnoses" above.
- 2. CHRONIC COLITIS WITH MUCOUS GLAND HYPERPLASIA AND HYPERSECRETION The mucosa, lamina propria, and submucosa are infiltrated with lymphocytes, macrophages, plasma cells, and an occasional neutrophil. Many of the glands in the

mucosa are distended with mucus. Small amounts of mucus adhere to the mucosal surface and are present in the lumen. Epithelial cells in the mucosal glands are hyperplastic. Severity grade criteria are not applicable since only two animals in this study had this lesion.

- 3. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 4. POLYP, CYSTIC, WITH MUCINOUS EPITHELIAL HYPERPLASIA AND OSSEOUS METAPLASIA AND/OR MINERALIZATION OF THE STROMA -These unusual lesions consist of large polypoid growths which extend into the lumen of the colon. The mass is covered by colonic epithelium which in some areas is ulcerated and accompanied by a chronic inflammatory response consisting of mononuclear cell infiltration and fibrosis. Within the mass are numerous large cystic spaces that are lined by flattened epithelium containing numerous mucus-secreting cells. These cystic cavities are distended with mucus that contains a few inflammatory cells and small particles of cellular debris. The stroma between the mucus-filled cysts consists of numerous slit-like endothelial-lined vascular spaces, fibrous connective tissue which is very dense in some areas and loosely arranged and edematous in others, and a multifocal to diffuse infiltration of mononuclear inflammatory cells. In some areas the dense fibrous stroma is mineralized and in other places there are spicules of metaplastic bone. adjacent colonic mucosa is ulcerated, infiltrated with inflammatory cells, and contains areas of fibrous connective tissue proliferation and foci of hyperplastic (regenerating) epithelial cells. These lesions occur in only two animals; both males in the high-dose group. In both cases there are serosal adhesions of the colon that could be attributed to the presence of the test material. In one case, the cecum and its cystic polypoid mass are adhered to the surface of the liver. It is probable that the presence of the test material and the reaction to it contributed to the development of these unusual lesions in the colon. lesion is coded as "Present."

STOMACE

Mucosal glandular dilatation was observed microscopically in almost every rat that was necropsied during the second year of this study. Since this change is universally present in all three experimental groups, it is

considered as a normal aging change and is not coded.

- 1. COMPOUND-RELATED INFLAMMATORY REACTION See "General Diagnoses" above.
- 2. SEROSAL FIBROSIS The presence of fibrous connective tissue proliferation on the serosal surface. Minimal numbers of inflammatory cells may be present. There is no test material or foreign-body giant cells. The lesion is coded as "Present."
- 3. ULCERATION, NONGLANDULAR AREA There is necrosis and sloughing of the squamous epithelial lining of the nonglandular portion of the stomach. Mononuclear inflammatory cell infiltration, edema, and proliferation of small amounts of fibrous connective tissue may be present at the periphery of the ulcer and in underlying stomach wall. The lesion is coded as "Present."
- 4. MUCOSAL AND/OR SUBMUCOSAL EDEMA Cellular elements of the stomach mucosa and/or submucosa are separated by the presence of pale eosinophilic edema fluid. This lesion may occur in either the glandular or squamous-lined portions of the stomach. The lesion is coded as "Present."
- 5. LARGE GRANULAR LYMPHOCYTE LEUKEMIA See "General Diagnoses" above.
- 6. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 7. SQUAMOUS CELL PAPILLOMA There is a well-defined proliferation of the squamous epithelium of the stomach. The proliferating epithelial cells are well differentiated and are arranged in blunt papillary projections which extend into the lumen. The surface of the growth is usually keratinized. Proliferation of basal cells can be seen. The growth does not extend beyond the basement membrane. The mucosa and submucosa adjacent to papillomas are usually infiltrated by mononuclear inflammatory cells.
- 8. EROSION AND/OR ULCERATION OF THE GLANDULAR MUCOSA There is necrosis and sloughing of the epithelial cells in the glandular portion of the stomach mucosa. In an erosion, the necrosis is confined to the epithelial lining; in the case of ulceration, the necrotic process extends beyond the basement membrane to involve the underlying submucosa. Adjacent to

the area of necrosis, there is usually infiltration of mononuclear inflammatory cells and, in chronic cases, fibrous connective tissue proliferation. Severity grade criteria:

- 1 = Small focal area of necrosis less than the diameter of a 20X microscopic field.
- 3 = The necrotic area extends beyond the basement membrane and occupies an area as large as a 10X microscopic field.
- 4 = The ulcerated area is greater than the diameter of a 4X microscopic field.

SKELETAL MUSCLE

- 1. ACUTE MYOSITIS This is acute inflammation of skeletal muscle tissue. Muscle fibers are separated by infiltration of neutrophils and fewer macrophages and lymphocytes. In more severe cases there is coagulative necrosis of muscle fibers and phagocytosis of the necrotic cellular debris. Severity grade criteria:
 - 1 = Minimal detectable infiltration of neutrophils.
 - 2 = Mild infiltration of neutrophils and a few macrophages in an area up to the diameter of a 10X microscopic field.
 - 3 = Coagulative necrosis of muscle tissue with neutrophil infiltration. The size of the necrotic area is less than a 20X microscopic field.
 - 4 = Necrosis of muscle and neutrophilic infiltration. The necrotic area exceeds the diameter of a 20X field.
- 2. CHRONIC MYOSITIS Consists of chronic inflammation of skeletal muscle. Muscle cells are separated by infiltration of mononuclear inflammatory cells in which large macrophages predominate. In more severe cases there is necrosis of muscle fibers and the phagocytosis of necrotic debris by macrophages. Muscle fiber regeneration and fibrous connective tissue proliferation may be present. Severity grade criteria:
 - 1 = Minimal detectable infiltration of mononuclear inflammatory cells.

- 2 = Mild infiltration of mononuclear inflammatory cells. Fibrosis may be present. The lesion is focal and does not exceed the diameter of a 10X microscopic field.
- 3 = There is necrosis of muscle cells with phagocytosis of debris by macrophages. Regeneration may be present. The area of necrosis is less than that of a 20X microscopic field.
- 4 = Lesion is similar to grade 3; the necrotic area is larger than a 20% field.
- 3. CHRONIC INFLAMMATION RESTRICTED TO FASCIA This lesion consists of infiltration of lymphocytes, macrophages, and plasma cells into the fascia dividing bundles of skeletal muscle fibers. In addition, there may be increased amounts of fibrous tissue in these septae. There is no damage or inflammatory cell infiltration into adjacent muscle bundles. Severity grade criteria:
 - 1 = Minimal inflammatory cell infiltration involving an area smaller than a 20X microscopic field.
 - 2 = Mild inflammatory cell infiltration involving an area smaller than a 10X field.
 - 3 = Inflammatory cell infiltration involving an area larger than a 10X field.
 - 4 = Inflammatory cell infiltration involving an area larger than a 4X field.

SCIATIC NERVE

No lesions were observed in sciatic nerves of rats on this study.

TONGUE

- 1. MONONUCLEAR CELLULAR INFILTRATION There is focal, multifocal, or diffuse infiltration of mononuclear inflammatory cells between skeletal muscle fibers in the tongue. Severity grades are based on subjective assessment of the number of cells present:
 - 1 = Minimal
 - 2 = Mild
 - 3 = Moderate
 - 4 = Marked

- 2. PERIARTERITIS Inflammatory cell infiltration of the adventitia of small to medium-sized arteries and adjacent tissues. Severity grades are based on subjective assessment:
 - 1 = Minimal
 - $2 = \cdot Mild$
 - 3 = Moderate
 - 4 = Marked
- 3. MEDIAL HYPERTROPHY AND MINERALIZATION OF MEDIUM-SIZED MUSCULAR ARTERIES There is thickening of the muscular layer of the arterial wall. Several vessels in the same tongue section are often affected. Hyalinization and mineralization of hypertrophied muscle may be present. The lesion is coded as "Present."

SKIN

- 1. COMPOUND-RELATED INFLAMMATORY REACTION See "General Diagnoses" above.
- 2. INFLAMMATORY EXUDATE ON SKIN SURFACE There is a mixture of neutrophils, macrophages, fibrin, and cellular debris on the surface of the skin. Severity grades are based on the amount of surface area involved relative to different microscopic magnifications:
 - 1 = Area is less than the diameter of a 20% field.
 - 2 = Area is less than the diameter of a 10X field.
 - 3 =Area is less than the diameter of a 4X field.
 - 4 = Area is larger than the diameter of a 4X field.
- 2. PROCEDURE-RELATED GRANULOMATOUS CELLULITIS, SUBCUTIS Compound-related inflammatory reactions in the subcutis are similar to those in other locations. See "General Diagnoses" above.
- 3. NONSUPPURATIVE DERMATITIS There is a subacute inflammatory process involving the epidermis and dermis. The predominant change involves infiltration of lymphocytes, macrophages, plasma cells, and fewer neutrophils and eosinophils into these areas. The inflammatory cells are present within the epidermis, along the basement membrane, and between adnexal structures in the dermis. Severity grades are based on the amount of inflammatory cell infiltration:

- 1 = Minimal detectable inflammatory cell infiltrate.
- 2 = Mild diffuse infiltrate.
- 3 = Moderate numbers of inflammatory cells
- 4 = Affected area is nearly solidly infiltrated.
- 4. CELLULITIS An acute, subacute, or chronic inflammatory process in subcutaneous tissue characterized by inflammatory cell infiltration. Necrosis, cellular debris, and fibrin may be present in more severe cases. No test material or foreign-body giant cells are present. Severity grade criteria:
 - 1 = Minimum detectable inflammatory cell infiltration in the subcutaneous tissues.
 - 2 = Mild inflammatory cell infiltration. May be focal (less than the diameter of a 10X field) or diffuse.
 - 3 = Moderate numbers of inflammatory cells distributed either focally or diffusely. Small foci of necrosis, less than the diameter of a 40X field may be present.
 - 4 = Marked inflammatory cell infiltration and/or large areas of necrosis.
- 5. KERATOACANTHOMA (INVERTED PAPILLOMA), ANATOMIC SITE TO BE SPECIFIED A benign, well-encapsulated tumor, typically raised above the surrounding epidermis, with a central crater or pore that is filled with keratin. The neoplastic epidermis lining the crater contains many keratinized pearls, which are particularly numerous near the center of the tumor. There is sharp demarcation between tumor epithelium and the surrounding dermis. The anatomic location is documented using the special histologic comment feature of the Xybion program.
- 6. EROSION/ULCERATION OF THE SKIN SURFACE An erosion is necrosis and sloughing of the surface epithelium. The basement membrane is intact. An ulceration is necrosis of the skin which extends beyond the basement membrane to involve the underlying dermis. Usually, there is infiltration of neutrophils, lymphocytes, and macrophages at the periphery of such lesions. In chronic cases there may be fibrosis and attempts at epithelial regeneration as well. The lesion is coded as "Present."

- 7. BASAL CELL TUMOR Benign tumor of basal cell origin. Basal cells are usually arranged in long serpentine ribbons or small nests. The tumors are well demarcated from adjacent tissues in the dermis. The tumor cells are small with small amounts of lightly basophilic cytoplasm and round to oval vesicular nuclei. Mitotic figures are rare. There is a minimal amount of fine fibrous stroma. There is no evidence of invasion or metastasis.
- 8. BASAL CELL CARCINOMA A malignant neoplasm of basal cell origin. Cellular morphology and growth patterns are very similar to the benign basal cell tumor. Criterion that distinguishes malignant tumors is their invasiveness of adjacent tissue. Tumor cells are not confined by the enveloping capsule and invade adjacent tissue.
- 9. FIBROMA Benign tumor of fibrous connective tissue. These are well-demarcated proliferations of well-differentiated fibrocytes. Cells are arranged in parallel fashion or interlacing bundles. Nuclei are small and elongated. Mitotic figures are rare. These tumors are not highly cellular and contain an abundance of mature collagen.
- 10. ACANTHOSIS A non-neoplastic thickening of the epidermis. The entire layer of the epidermis is thickened. The rete ridges are elongated, irregular, and extend into the dermis for a variable distance. Severity grade criteria:
 - 1 = Epidermis is twice normal thickness.
 - 2 = Epidermis is three times normal thickness.
 - 3 = Epidermis is four times normal thickness.
 - 4 = Epidermis is more than four times normal thickness.
- 11. HYPERKERATOSIS Thickening of the stratum corneum by keratin accumulation. Severity grade criteria:
 - 1 = Stratum corneum is twice normal thickness.
 - 2 = Stratum corneum is three times normal thickness.
 - 3 = Stratum corneum is four times normal thickness.
 - 4 = Stratum corneum is more than four times normal thickness.
- 12. SQUAMOUS PAPILLOMA A small superficial pedunculated nodule consisting of neoplastic masses of mature keratinizing epithelial cells. Cells are in progressive stages of

keratinization often occurring in concentric whorls. There is no evidence of deeper invasion. The superficial location and the mature, highly keratinized, noninvasive growth distinguish papillomas from carcinomas. These tumors have a central core of dermis covered by layers of stratified squamous epithelium with marked hyperkeratosis and parakeratosis.

- 13. PREPUTIAL GLAND ADENOMA Well-differentiated, benign tumor of the preputial gland. Adenomas are composed primarily of glandular tissue with small nests of squamous cells scattered about. Eosinophilic granules are very prominent in the cytoplasm of acinar cells. These tumors grow in lobular fashion with smooth borders, and they may become very large.
- 14. CLITORAL GLAND ADENOMA Well-differentiated, benign tumor of the clitoral gland, the female counterpart of the male preputial gland described above. Microscopic characteristics are similar to those of preputial gland adenomas.
- 15. INFLAMMATION, NOT OTHERWISE SPECIFIED, PREPUTIAL GLAND Presence of lymphocytes, macrophages, neutrophils, or plasma cells within the preputial gland. This lesion is coded as "Present."
- 16. NEUROFIBROSARCOMA, SUBCUTANEOUS, LOCATION TO BE SPECIFIED Microscopically, these tumors are composed of spindle-shaped cells arranged in circular whorls or wavy fasciculi. They closely resemble fibrosarcomas but differ in that cells tend to have the form of plump spindles and retain the whorled, curly arrangement. The location of these tumors is documented in the special histologic comments feature of the Xybion program.
- 17. FIBROSARCOMA Malignant neoplasm of fibrous connective tissue. Tumor cells with their collagenous fibrils are arranged haphazardly and run aimlessly in a variety of directions. Fasciculi of cells lying in the same plane are often seen. A high degree of cellularity, hyperchromatic staining of nuclei, and a tendency for the nuclei to be plump, stellate, and bizarre indicate malignancy. Mitotic figures may be very numerous.
- 18. EPIDERMAL INCLUSION CYST One or more small cysts

located within the dermis and surrounded by a thin fibrous capsule. The cyst wall consists of flattened squamous epithelium without adnexal structures. The cyst is filled with concentrically laminated masses of keratin and amorphous cellular debris. Intense inflammatory reaction may occur around these lesions if the cyst ruptures. This lesion is coded as "Present."

MAMMARY GLANDS

- 1. HYPERPLASIA AND/OR HYPERTROPHY OF ACINAR TISSUE Increased size and number of mammary secretory cells. These cells are arranged in lobules. In hyperplastic glands, the lobules become larger and closer together. Cells are cuboidal to low columnar, and crowded together on the basement membrane to the point that mild piling up of cells occurs. Often these cells are actively secreting and acini become distended with slightly basophilic granular or foamy secretory product. Mammary hyperplasia occurs in both sexes although it is more prevalent and usually more severe in females. The same severity grade criteria are used for both sexes:
 - 1 = Foci of acinar cells are widely scattered.
 Most are less than the diameter of a 40X
 microscopic field.
 - 2 = Acinar foci are more numerous but small. The largest are larger than a 40% field but smaller than a 20% field.
 - 3 = Extensive acinar tissue is present. It is nearly confluent but there are a few uninvolved areas.
 - 4 = Confluent secretory tissue is present.
- 2. GALACTOCOELE Marked cystic dilatation of a mammary duct. The dilated duct is lined by flattened ductal epithelium and is filled with secretory product. The lesion is coded as "Present."
- 3. FIBROADENOMA A benign tumor of mammary origin in which there is proliferation of both epithelial and connective tissue components. Histologically, fibroadenomas vary considerably in their structural composition. Either the epithelial or the connective tissue component may predominate. Usually there is a concomitant growth of connective tissue stroma, glandular and ductal cells. Ducts

may become surrounded by layers of fibrous connective tissue and the histological appearance becomes that of single acini or tubules separated from each other by concentric layers of loose connective tissue. The secretory epithelium is usually only one cell layer thick and bears the same relation to myoepithelium and basement membrane as it does in the normal mammary gland.

- 4. DILATATION (ECTASIA) OF DUCTS AND DUCTULES Dilatation of mammary ducts occurs independently of mammary acinar hyperplasia and is therefore coded independently. Dilated ducts often contain pale eosinophilic secretory material. This lesion is coded as "Present."
- 5. MAMMARY ADENOCARCINOMA A malignant tumor that is derived from glandular epithelium. The epithelium is arranged in glandlike structures surrounding a lumen. Acinar spaces may be orderly and regular or may vary considerably in size and shape. Eosinophilic or basophilic secretion is often present in glandular spaces. The epithelium varies from low cuboidal to tall columnar cells and may be several cell layers thick. Nuclei are large and mitotic figures are numerous. In some adenocarcinomas, the acinar spaces are completely filled with tumor cells and no lumens are present. Stroma within cell masses is usually scanty. Papillary projections can form, however. Stromal invasion by neoplastic epithelial cells is common. Necrosis and mononuclear inflammatory cell infiltration can occur and are more frequent in larger tumors.

NOSE/TURBINATES

- 1. ACUTE INFLAMMATION Presence of suppurative inflammation within the nasal cavity. Necrosis may be present in more severe lesions. Severity grade criteria:
 - 1 = Minimal detectable infiltration of neutrophils.
 - 2 = Mild infiltration of neutrophils.
 - 3 = Moderate infiltration of neutrophils. Suppurative exudate is present within nasal passages.
 - 4 = Marked neutrophilic infiltration. Suppurative exudate is present in nasal passages. Necrosis with destruction of nasal tissues is present.

- 2. SUBACUTE INFLAMMATION Infiltration of lymphocytes, macrophages, and plasma cells into tissue of the nasal cavity. Necrosis may be present in more severe lesions. Severity grade criteria:
 - 1 = Minimal infiltration of mononuclear inflammatory cells.
 - 2 = Mild mononuclear cell infiltration.
 - 3 = Moderate mononuclear infiltration. Exudate is present in nasal passages.
 - 4 = Marked mononuclear cell infiltration. Exudate
 is present in nasal passages. Necrosis with
 destruction of nasal tissues is present.
- 3. MIXED INFLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, TURBINATES OR NASOLACRIMAL DUCTS This diagnosis is used primarily for small focal inflammatory lesions in the nasal cavity. The exact location of the lesion is documented in the special histologic comments of the Xybion program. Most of the lesions coded under this diagnosis are inflammatory foci adjacent to nasolacrimal ducts. Inflammatory cell foci are very common in this location in rats used in Study GLP 83009. Severity grade criteria:
 - 1 = Minimal inflammatory cell infiltration.
 - 2 = Mild inflammatory cell infiltration.
 - 3 = Moderate inflammatory cell infiltration; cellular exudate is present within a natural anatomic space, e.g., the lumen of the nasolacrimal duct.
 - 4 = Marked inflammatory cell infiltrate. Exudate
 is present within a natural anatomic space.
 Small amounts of necrosis may be present.

BONE

Bone and bone marrow were examined from the **STERNUM**, **FEMUR**, and **YERTEBRAE** as well as incidental locations such as the nasal cavity, and middle and inner ear. The diagnoses coded for bone marrow from all these sites are described below.

1. MYELOID HISTIOCYTOSIS - This is an unusual lesion that affects bone marrow uniformly in an affected animal. The marrow contains large numbers of large histiocyte-like cells. No microorganisms were detected in sections stained by

Gomori's Mathenamine Silver stain, Periodic Acid-Schiff (PAS), Giemsa, or Goodpasture stains. Cells contained diastase-resistant PAS-positive material. Whether this lesion is inflammatory or neoplastic in nature is unknown. The lesion is coded as "Present."

- 2. HYPERPLASIA, MYELOID This change in bone marrow consists of excess non-neoplastic proliferation of granulocytic precursors. Erythroid precursors are present but usually reduced in number. The myeloid proliferation may be multifocal or diffuse. The change is coded as "Present."
- 3. MYELOFIBROSIS/OSTEOSCLEROSIS All normal marrow elements are greatly reduced in number and are replaced by hypocellular loosely arranged fibrous tissue. The lesion is coded as "Present."
- 4. LARGE GRANULAR LYMPHOCYTE LEUKEMIA See "General Diagnoses" above.

SPINAL CORD

No gross or microscopic lesions were observed the the spinal cords of rats used in Study GLP 83009.

ADRENAL GLANDS

- 1. CORTICAL ADENOMA A benign tumor of adrenal cortical cells. The tumor cells are arranged in a discrete nodule which compresses adjacent cortical tissue. Within the tumor, the cells lack their normal orderly arrangement and relationship to basement membrane and vasculature. They are arranged in short cords, or nests separated by delicate fibrovascular stroma. Tumor cells may be either larger or smaller than their non-neoplastic counterparts and the tinctorial qualities of their cytoplasm vary considerably. The presence of lipid vacuoles is quite common as is slight granular basophilia. Mitotic figures are rare. Adenomas are well-vascularized and irregular, blood-filled, endothelial-lined spaces and hemorrhage are common findings.
- 2. LIPIDOSIS Presence of intracytoplasmic lipid vacuoles in cortical cells. This change may be uniform or multifocal. Severity grade is based on the amount of the adrenal cortex involved:

- 1 = Less than 25% of the cortical cells are vacuolated.
- 2 = 25% to 50% of the cells are affected.
- 3 = 50% to 75% of the cortex is affected.
- 4 = More than 75% of the cortex is affected.
- 3. FOCI OF CELLULAR ALTERATION These are degenerative lesions affecting cells of the adrenal cortex. The changes are focal. Affected cells may be either larger or smaller than normal and have different tinctorial qualities as follows:
- 3A. FOCUS OF CELLULAR ALTERATION, EOSINOPHILIC Degenerative cortical cells are slightly larger than normal and their cytoplasm is granular and eosinophilic. There is slight compression of adjacent normal cortical cells.
- 3B. FOCUS OF CELLULAR ALTERATION, VACUOLATED Degenerative cortical cells may be slightly larger than normal and their cytoplasm is vacuolated. There is usually slight compression of adjacent cortical cells.
- 3C. FOCUS OF CELLULAR ALTERATION, BASOPHILIC Degenerative cortical cells may be slightly smaller than normal and their cytoplasm has a slight basophilic granularity. Severity grade criteria for foci of cellular alteration:
 - 1 = One focus.
 - 2 = Two or three foci.
 - 3 = Four to six foci.
 - 4 = More than six foci.
- 4. CORTICAL NODULAR HYPERPLASIA Nodular proliferation of adrenal cortical cells. Cells may be slightly larger than normal and cytoplasm may be finely vacuolated. These small nodules are usually located at the surface of the adrenal and are surrounded by a thin extension of the adrenal capsule. This change is coded as "Present."
- 5. FIBROSIS, CAPSULE Proliferation of fibrous connective tissue in the adrenal capsule. There are minimal numbers of mononuclear inflammatory cells present. Severity grade criteria are based on the proportion of the adrenal capsule involved:
 - 1 = Minimal capsular fibrosis; less than 10% of capsule is involved.

- 2 = 10% to 25% of the capsule is involved.
- 3 = 25% to 50% of the capsule is fibrotic.
- 4 = More than 50% of the capsule is fibrotic.
- 6. MEDULLARY CARCINOMA (MALIGNANT PHEOCHROMOCYTOMA) Malignant tumor of the adrenal medulla. The cells resemble normal medullary cells but usually they have less cytoplasm and the nuclei are hyperchromatic. The cells are arranged in nests and sometimes in trabecular fashion. Usually the cells are of one type although there are occasional small basophilic cells, with transitions to larger cells having abundant cytoplasm and large nuclei. The only criteria that are used to differentiate malignant from benign tumors of the adrenal medulla is invasion of the capsule and infiltration of tissues outside the adrenal gland or metastasis.
- 7. PHEOCHROMOCYTOMA Benign tumor of the adrenal medulla. Morphologic characteristics are similar to that of medullary carcinoma described above. The benign tumors may become quite large but are confined to the adrenal gland.
- 8. LARGE GRANULAR LYMPHOCYTE LEUKEMIA See "General Diagnoses" above.
- 9. EXTRAMEDULLARY HEMATOPOIESIS Presence of erythrocytic precursors within the adrenal gland. This change is coded as "Present."
- 10. NECROSIS Coagulative or liquefactive necrosis in the adrenal cortex or medulla. Severity grade criteria:
 - 1 = Focus of necrosis less than the diameter of a
 40X microscopic field.
 - 2 = Necrosis of less than 25% of an adrenal gland.
 - 3 = Necrosis of 25% to 50% of an adrenal gland.
 - 4 = Necrosis of more than 50% of an adrenal gland.

PITUITARY GLAND

1. ADENOMA - A benign tumor of the anterior pituitary gland. Proliferating cells of the anterior pituitary gland vary considerably in their cytological characteristics and in their tinctorial qualities. Using only hematoxylin and eosin staining, it is not possible to identify cell types accurately or to identify the type of hormone that may be

secreted. Pituitary tumor cells are usually arranged in short cords or nests separated by very fine fibrovascular stroma. They are highly vascular and irregular, bloodfilled, endothelial-lined spaces occur frequently as does hemorrhage. Metastases occur rarely but large tumors may infiltrate adjacent tissue and compress overlying tissue of the brain which undergoes compression atrophy.

- 2. CYST(S) Presence of spaces within the pituitary that are usually filled with pale eosinophilic fluid. The spaces may be lined with endothelium or flattened epithelial cells. Rarely, a ciliated cell may be observed. Cysts in the pituitary may be single or multiple. They are coded as "Present."
- 3. ADENOCARCINOMA A malignant tumor of the anterior pituitary gland. Morphologically, malignant tumors of the pituitary can be distinguished from their benign counterparts only by their invasiveness. Metastases are very rare. If the tumor cells infiltrate tissues outside the confines of the pituitary gland, it is coded as an adenocarcinoma.
- 4. LARGE GRANULAR LYMPHOCYTE LEUKEMIA See "General Diagnoses" above.

EYES AND OPTIC NERVE

- 1. CORNEAL MINERALIZATION Presence of small spicules of mineral within the cornea. Usually this is accompanied by vascularization and occasionally by infiltration of a few inflammatory cells. Severity grade criteria:
 - 1 = Presence of one focus of mineral.
 - 2 = Presence of two or three mineralized foci.
 - 3 = Four to six foci present.
 - 4 = More than six mineralized foci present.
- 2. RETINAL ATROPHY AND/OR DEGENERATION Consists of variable reduction of cellular elements and disorganization of the different layers of the retina. This is a progressive condition that increases in severity as the animal ages. The condition may be unilateral or bilateral. Severity grade criteria:
 - 1 = Perceptible reduction in the number of cells in the retina.

- 2 = Multifocal disorganization of retinal layers.
- 3 = Diffuse disorganization of retinal layers. Some parts of layers may be recognizable.
- 4 = No recognizable retinal tissue is present. The retina consists of a band of fibrous tissue.
- 3. CORNEAL PIGMENTATION Presence of pigment within the cornea. Pigment may be hemosiderin or melanin. It is present within histiocytic cells and usually accompanies inflammatory lesions in the cornea. Such pigment accumulations are usually focal. Severity grade criteria is based on the number of pigmented foci present:
 - 1 = One pigmented focus is present.
 - 2 = Two or three pigmented foci are present.
 - 3 = Four to six pigmented foci are present.
 - 4 = More than six pigmented foci are present.
- 4. CORNEAL VASCULARIZATION Presence of endothelial-lined vascular spaces beneath the epithelium or within the corneal stroma. Severity grade criteria are based on the number of vascular cross sections present:
 - 1 = One vascular cross section.
 - 2 = Two or three vascular cross sections.
 - 3 = Four to six vascular cross sections.
 - 4 = More than six vascular cross sections.
- 5. CHRONIC KERATITIS Chronic inflammation involving the cornea. One or more of the following histologic findings may be present: mononuclear inflammatory cell infiltration beneath the epithelium and into the stroma, erosion or ulceration of the epithelium, proliferation of vascular structures (see corneal vascularization above), presence of pigment, necrosis of cellular elements, and presence of scar tissue. Severity grade criteria are based on the degree of corneal damage and the amount of the cornea involved:
 - 1 = Minimal to mild mononuclear inflammatory cell infiltration.
 - 2 = Moderate inflammatory cell infiltrate with vascular proliferation or pigment deposition.
 - 3 = Similar to grade 2 plus minimal necrosis or scar tissue proliferation.
 - 4 = Marked chronic inflammatory changes involving 50% or more of the cornea.

- 6. IRIDOCYCLITIS Inflammation of the iris and/or ciliary body. This was a very unusual lesion in this study. It affected only three rats in which it consisted of mild infiltration of the uveal tract with mononuclear inflammatory cells. Severity grade criteria:
 - 1 = Minimal infiltration of uveal tract with mononuclear inflammatory cells.
 - 2 = Mild mononuclear infiltration of uveal tract.
 - 3 = Criteria not established.
 - 4 = Criteria not established.
- 7. METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA This very common finding consists of focal proliferation of plaques of metaplastic bone or deposition of mineral, or both, in the dense fibrous tissue of the sclera. There are no inflammatory lesions associated with these changes. These changes are coded as "Present."
- 8. LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT A cataract is opacity of the lens that can be detected grossly. Microscopically, this lesion may consist of some or all of the following degenerative changes in the lens: abnormal proliferation of lens epithelium which may become redundant and disorganized, disorganization of lens fibers in the cortex with aggregation into spherical masses or globules of material which may become mineralized, increased density, disorganization, and possibly liquefaction of nuclear fibers. These changes are coded collectively under this diagnosis and are designated as "Present."
- 9. CHRONIC CONJUNCTIVITIS Chronic inflammation of the conjunctiva. This lesion is characterized primarily by the infiltration of mononuclear inflammatory cells into the conjunctival membrane. Fibrosis may be present. Severity grade criteria are based on the amount of cellular infiltration present:
 - 1 = Minimal mononuclear cell infiltrate.
 - 2 = Mild mononuclear cell infiltrate.
 - 3 = Moderate mononuclear cell infiltrate.
 - 4 = Marked mononuclear cell infiltrate.

EAR

1. OTITIS MEDIA, SUPPURATIVE OR NONSUPPURATIVE - Acute or

subacute inflammation of middle ear structures.
Microscopically, this lesion consists of infiltration of
neutrophils (suppurative) or mononuclear inflammatory cells
(nonsuppurative) into the structures of the middle ear.
Severity grade criteria:

- 1 = Minimal inflammatory cell infiltration.
- 2 = Mild inflammatory cell infiltration into tissues surrounding the cavities of the middle ear.
- 3 = Moderate inflammatory cell infiltrate; presence
 of cellular exudate within the cavities of the
 middle ear.
- 4 = As in Grade 3 above plus necrosis and destruction of middle ear structures.
- 2. FIBROSARCOMA, SUBCUTANEOUS, EXTERNAL EAR, ADJACENT TO EAR TAG Histological characteristics of this tumor are similar to fibrosarcomas described under the *SKIN*. There was one such tumor adjacent to the ear tag in one animal.
- 3. PITUITARY TUMOR INVASION There is an infiltration of cells from a pituitary tumor within the cranial cavity adjacent to the structures of the middle and inner ear near the origin of the acoustic nerve. Cellular characteristics and arrangement of tumor cells are similar to that described for adenoma under the PITUITARY GLAND.

AUDITORY SEBACEOUS GLAND

No gross or microscopic lesions were recognized in the auditory sebaceous glands of rats in Study GLP 83009.

ABDOMINAL WALL

1. INFECTION AND INFLAMMATION, SEVERE, INVOLVING MUSCULATURE AND PERITONEAL SURFACE - This diagnosis is self-explanatory. This lesion was not observed in animals necropsied during the second year of this study. This diagnosis is described in the interim report of Study GLP 83009, which covers the findings of the first year of this two-year study.

THORAX

1. PRESENCE OF METASTATIC SARCOMA IN THORACIC WALL - See "General Diagnoses" above.

WHOLE BODY

- 1. LARGE GRANULAR LYMPHOCYTE LEUKEMIA Since neoplastic cells from this disease may occur in virtually every organ and tissue of the body, the primary site for the lesion is coded under WHOLE BODY. See "General Diagnoses" above for microscopic description and criteria for coding metastases.
- 2. INFLAMMATION OF BROWN FAT This lesion consists of infiltration of inflammatory cells and proliferation of fibrous connective tissue in brown fat. The lesion can occur in brown fat deposits anywhere in the body. For this reason it is coded under WHOLE BODY and its location is specified in the special histologic comments section of the Xybion program. The lesion is coded as "Present."

MEDIASTINUM

- 1. CHRONIC INFLAMMATION The presence of lymphocytes, macrophages, plasma cells, and the proliferation of fibrous connective tissue within the mediastinal tissues. Severity grade is based on a subjective impression of the intensity and extent of the inflammatory lesion:
 - 1 = Minimal detectable infiltration of inflammatory cells.
 - 2 = Mild inflammatory response limited to a small focal area in the mediastinum.
 - 3 = Moderate inflammatory response; not all tissues in the mediastinum are involved.
 - 4 = Marked inflammatory response involving most of the tissues in the mediastinum.
- 2. REACTIVE HYPERPLASIA, LYMPH NODE Lymph nodes in the mediastinum are enlarged due to the presence of increased numbers of non-neoplastic lymphoid cells. Microscopic appearance is similar to that described as reactive hyperplasia under LYMPH NODES above. The separate diagnosis under MEDIASTINUM is used in the few instances of marked reactive hyperplasia of mediastinal nodes to explain and document this change. The lesion is coded as "Present."
- 3. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 4. PRESENCE OF METASTATIC NEOPLASM See "General Diagnoses"

above.

ABDOMINAL CAVITY

- 1. SARCOMA, CELLULAR DIFFERENTIATION UNSPECIFIED As explained under "General Diagnoses" above, this diagnosis is used for those sarcomas that develop within the fibrous connective tissue reaction incited by the test material. Since no single organ is involved in every case of sarcoma, the lesion is coded under ABDOMINAL CAVITY as the primary site. In each case, the histologic differentiation of the neoplasm is described using the special histologic comments section of the Xybion program. The lesion is coded as "Presence of Metastatic Sarcoma" under each specific organ that is involved. Using this method of computer entry, it is possible to document the presence of the lesion in multiple sites and indicate its histologic differentiation without causing duplications in incidence data.
- 2. CHRONIC INFLAMMATION DUE TO THE PRESENCE OF TEST COMPOUND This designation is used in the few cases in which the lesion is located in sites where it is impossible or impractical to specify a particular organ or tissue. Examples of this situation are lesions located in the mesentery, omentum, or other areas not routinely examined microscopically. The exact location of the lesion is documented using the special histologic comments section of the Xybion program. Whenever possible, the diagnosis is entered directly for a specific organ.
- 3. MESOTHELIOMA Proliferation of malignant cells from serosal surfaces of the abdominal cavity. This tumor can be located on any serosal surface of the abdominal cavity. It is composed of multiple papillary fronds of malignant mesothelial cells arising from the serosal surface. The papillary structures have a supporting stalk of connective tissue containing blood vessels. Covering the stalk are the malignant mesothelial cells which may exist as a single layer or they may be piled up into small nodules. The cells are usually small, either flat or low cuboidal, with scanty amounts of cytoplasm, and round to oval vesicular nuclei. Usually mitotic figures are infrequent. The locations of these lesions in the abdominal cavity are specified using the special histologic comments section of the Xybion program.
- 3. LIPOMA A benign tumor of adipose tissue. These are

usually well-circumscribed lesions within the mesentery or omentum. They consist of a nodule of fat cells surrounded by a thin connective tissue capsule. Occasionally there are foci or areas of necrosis and mineralization within the nodule.

DIAPHRAGM

- 1. PRESENCE OF METASTATIC SARCOMA See "General Diagnoses" above.
- 2. COMPOUND-RELATED INFLAMMATORY REACTION See "General Diagnoses" above.
- 3. PRESENCE OF METASTATIC NEOPLASM See "General Diagnoses" above.

Appendix J: PATHOLOGY INDIVIDUAL ANIMAL DATA

Since the XYBION animal-numbering system employed for compilation of pathology data was incompatible with the TOXSYS numbering system used during the in-life phase of the study, animals were renumbered for the pathology data as follows:

Group 1
Males Femalus

Path# TOX#	<u>Path# TOX#</u>	Path# TOX#	<u>Path# TOX#</u>
(84D00	-) (84D00-	-) (84D00-	(84D00-)
(84D00-1) 1 001 2 002 3 009 4 010 5 013 6 022 7 024 8 031 9 043 10 044 11 045 12 048 13 050 14 055 15 061 16 062 17 065 18 067 19 068 20 069 21 074 22 076 23 077 24 078 25 079 26 080 27 081 28 085 29 089	-) (84D00- 35 100 36 103 37 104 38 105 39 107 40 108 41 109 42 114 43 115 44 116 45 128 46 129 47 131 48 132 49 134 50 139 51 150 52 151 53 152 54 153 55 156 56 157 57 161 58 165 59 167 60 172 61 177 62 181 63 185	205 226 206 230 207 232 208 236 209 237 210 238 211 241 212 258 213 259 214 262 215 263 216 265 217 267 218 269 219 273 220 275 221 277 222 281 223 286 224 296 225 302 226 304 227 305 228 311 229 312 230 315 231 318 232 320 233 325	(84D00-) 239
30 091	64 187	234 327	268 424
31 094	65 191	235 333	269 430
32 095	66 193	236 338	270 431
33 097	67 199	237 343	271 432
34 099	68 201	238 347	272 433

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA

Group 2 Males Females

<u>Path# TOX#</u> (84D00-	Path# TOX# (84D00-)	<u>Path# TOX#</u> (84D00-)	<u>Path# TOX#</u> (84D00-)
69 003	103 113	273 228	307 322
70 004	104 118	274 229	307 322
71 005	105 122	275 231	309 326
72 011	106 123	276 234	310 328
73 012	107 126	277 239	310 328
74 014	108 130	278 244	311 332 335
75 015	109 136	279 246	312 335
76 025	110 137	280 247	314 339
77 026	111 140	281 249	315 340
78 029	112 141	282 250	316 342
79 033	113 144	283 251	317 344
80 034	114 145	284 257	318 345
87 038	115 146	285 260	319 346
82 041	116 147	286 270	320 351
83 046	117 149	287 272	321 357
84 049	118 154	288 279	322 361
85 051	119 159	289 282	323 363
86 053	120 160	290 284	324 366
87 059	121 168	291 287	325 373
88 060	122 169	292 289	326 380
89 063	123 171	293 291	327 383
90 070	124 174	294 292	328 386
91 071	125 176	295 293	329 392
92 072	126 180	296 294	330 399
93 082	127 182	297 297	331 406
94 083	128 186	298 300	332 407
95 084	129 188	299 303	333 415
96 088	130 190	300 308	334 418
97 090	131 192	301 309	335 421
98 092	132 194	302 310	336 422
99 096	133 196	303 314	337 425
100 102	134 203	304 316	338 426
101 106	135 205	305 317	339 429
102 111	136 206	306 319	340 434

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA

Group 3
Males Females

Path		Path#		Path#		Path#	
	(84D00-)		(84D00-)		(84D00-)		(84D00-)
137	006	171	117	341	227	375	336
138	007	172	119	342	233	376	341
139	008	173	120	343	235	377	349
140	016	174	121	344	240	378	350
141	017	175	124	345	242	379	353
142	018	176	125	346	243	380	354
143	019	177	127	347	245	381	358
144	021	178	133	348	248	382	359
145	023	179	138	349	252	383	362
146	027	180	142	350	253	384	364
147	028	181	143	351	254	385	365
148	030	182	148	352	255	386	368
149	032	183	155	353	261	387	369
150	035	184	158	354	264	388	371
151	036	185	162	355	266	389	374
152	039	186	163	356	268	390	378
153	040	187	164	357	271	391	381
154	042	188	166	358	278	392	384
155	047	189	170	359	280	393	387
156	052	190	173	360	285	394	388
157	054	191	175	361	288	395	389
158	056	192	178	362	290	396	390
159	058	193	179	363	298	397	391
160	064	194	183	364	299	398	395
161	066	195	189	365	301	399	397
162	073	196	195	366	306	400	403
163	075	197	19 7	367	307	401	404
164	086	198	198	368	313	402	409
165	087	199	200	369	321	403	410
166	093	200	202	370	324	404	414
167	098	201	204	371	329	405	420
168	101	202	207	372	330	406	427
169	110	203	208	373	331	407	428
170	112	204	209	374	334		

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DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
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Appendix

	Appendix o (conc.).	FRIEDESCH INDIVIDUAL ANITAL DAIA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	E OF RESEARCH INDIVIDUAL ANIMAL STUDY GP STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHR
ANIMAL NUMBER: 13/PRETEST= DATE OF DEATH: 27-JAN-86 STUDY DAY OF	FRETEST= 13 SEX: MALE STUDY DAY OF DEATH: 736	
ORGAN NAME KEYUORDS / PHRAS	R G A N O B S E R V	T I O N S >> GROSS FREE-TEXT COMM
TESTES TESTES LIVER KIONEY PITUITARY GLAND	ENLARGED FRESENT GROUTH(S) / MASS(ES) ADMESION(S) FRESENT GRAWULAR SURFACE FRESENT ENLARGED	RIGHT, 2.5 X 1.5CM RIGHT, 2.5 X 1.5CM RILATERAL, MULTIPLE VARIABLY SIZED, YELLOW AND BLACK DIAPHRAGM AND VENTRAL PERITONEAL WALL BILATERAL .5CM DIAMETER, MOTTLED RED AND BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	MICROSCOPIC TISSUE	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART		NOT SPECIFIED(MILD)
LYMPH MODESREMOSIDERIN AND/OR ER MEDULLARY SINUSES	SIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	. RBC'S PRESENT IN MEDIASTINAL NODES ONLY. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA ANI -NEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - EOSINOPI	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD)
FROGRESSIVE RENAL DISEASE	ASE	NOT SPECIFIED (MARKED)
PROSTATE		NOT SPECIFIED(MILD)
TESTES	DENOMA	(PRESENT)
MAMMARY GLANDS		

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	DATA REPORT GLP83009
ANIMAL NUMBER: 13/PRETEST= 13 SEX: MALE DOSE GROUP: 1 DATE OF DEATH: 27-JAM-66 STUDY DAY OF DEATH: 736 STUDY WEEK OF	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 397.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED(TRACE) Not specified (present)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
-CORNEAL MINERALIZATION -CORNEAL MINERALIZATION -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA -LEMTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	MILD DEGEMERATIVE CHANGES NOTED IN LENS ON SECTION # 198. NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANGOUS TISSUE Not Specified (Present)

DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR	STUDY START DATE: 23-JAN-64 STUDY STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 16 C/2 YR CARCINGGENIC
ANIMAL NUMBER: 14/ DATE OF DEATH: 27-JAN-86	PRETEST 1 STUDY DAY OF D	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 37	E 377.00 (GMS)
ORGAN NAME	G R O S S O R G A N O B EYLORDS / PHRASES	<	
LIVER	ADHESION(S) ASS(ES) P	PRESENT DIAPHRAGM, STOMACH, INTESTINE AND VENTRAL ABDOMINAL WALL PRESENT TWO MASSES, ONE IS .5CM DIAMETER AND NODULAR. THE OTHER	IAL WALL IE OTHER
SPLEEN SPLEEN TESTES TESTES EYES & OPTIC N.	PROMINENT FIBROUS CAPSULE STRICTURE ENLARGED GROUTH(S) / MASS(ES) LENS CATARACT	IS ICM DIAMETER, DARK AND BLOOD FILLED. PRESENT FOCAL, .5 X .25CM PRESENT RIGHT, 3 X 1.75CM PRESENT BILATERAL, YELLOW AND BLACK PRESENT LEFT	
TISSUE / NISTOPATHOLOGIC FINDINGS	8 1 1 2 1 8 0 0 8 0	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
THYROID GLANDS	MYROID GLANDS	NOT SPECIFIED(TRACE)	
SALIVARY GLAND	ALIVARY GLANDATROPHY AND LOSS OF ACINAR TISSUE		
EXORBITAL LACRIM	EXORBITAL LACRIM	TISSUE 18 MISSING	
-CARDIOMYOPATHY -MEDIAL MYPERTROPH	-CARDIONYOPATHY	NOT SPECIFIED (MILD) NOT SPECIFIED (TRACE)	
SPLEEN		FOCAL (TRACE)	
-RED BLOOD CEELS, MEM MEDULLARY SINUSES -REACTIVE HYPERPLASIA	TMPN NODES	RBC'S AND PIGNENT ARE PROMINENT IN MEDIASTINAL NODE. WITHIN NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SECTION STATE AND NUMBER:	OGY INDIVIDUAL ANIMAL DATA AMIMAL DATA REPORT UMBER: GLP83009 AMIMAL OF STUDY TYPE: CHROMIC/2 YE CARCIMOGENIC
PRETESTS 14 SEX: MALE STUDY DAY OF DEATH: 736	SACRIFICE STATU DEATH: 106 TERMINA
C M I C M O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	0 B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) FOCAL(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
STOMACH	NOT SPECIFIED (PRESENT)
SKELETAL MUSCLE	NOT SPECIFIED(TRACE)
SCIATIC MERVE	TISSUE IS MISSING
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)

Appendix	J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA	L ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	II STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	PRINTED: 21-NOV-89 PAGE: 18 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 14/PRETEST= DATE OF DEATH: 27-JAN-86 STUDY DAY C	14 SEX: MALE OF DEATH: 736	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRISTUDY WEEK OF DEATH: 106 TERNINAL BODY WEIGHT:	SACRIFICE STATUS: FINAL SACRIFICE : 106 TERMINAL BODY WEIGHT: 377.00 (GMS)
TISSUE / NISTOPATHOLOGIC FINDINGS	OPIC TISSUE	• • •	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EVES & OPTIC M	ATIBLE WITH CATARACT	NOT SPECIFIED (PRESENT)	ENT)
ABDOMINAL CAVITY	UNSPECIFIED	SARCOMA INVOLVES PRINTER IS OSTEOID PROFINE IS OSTEOID PROFINE IS OSTEOID PROFINE IS OSTEOID FOR THIS LESION IS OSTEOID IN THE MESTALLS OF THE PRESENT IN THE MESTALLS OF THE PRESENT IN THE PRESENT IN THE PRESENT IN THE PRESENT IN THE PRESENT IN THE PRESENT IN THE PRESENT IN THE PRESENT	MISCELLANEOUS TISSUE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. IN MANY AREAS THERE IS OSTEOID PRODUCTION, AND SOME OF THE OSTEOID IS MINERALIZED. THE MOST APPROPRIATE HISTOLOGICAL CLASSIFICATION FOR THIS LESION IS OSTEOSARCOMA. CHRONIC INFLAMMATORY RESPONSE IS PRESENT IN THE MESENTARY ADJACENT TO THE SMALL INTESTINE.
DIAPHRAGH	NO	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM NOT SPECIFIED (PRESENT)	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY NOT SPECIFIED (PRESENT)

	Appendix	J (cont.):	PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEAR DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEAR	STUDY STAR	INDIVIDUAL ANIMAL STUDY NUMBER: T DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHRO
ANIMAL MUMBER: 15/PRETEST= DATE OF DEATH: 27-JAM-86 STUDY DAY O	15/PRETEST= JAM-86 STUDY DAY O	15 SEX: MALE 7 OF DEATH: 736	DOSE GRO STUDY WE	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 376.00 (GMS)
	< G R O S S KEYWORDS / PHRA		< _	
LIVER LIVER TESTES	ADMESION(S) GROUTH(S) / MAS	 1855(ES)	PRESENT PRESENT PRESENT	DIAPHRACH, STOMACH, OMENTUM, VENTRAL ABDOMINAL WALL 2CH DIAMETER, FIRM, WHITE 3 x 1.75CM BILATERAL
TESTES	GROUTH(S) / MAS	IASS(ES)	PRESENT	BILATERAL, YELLOW AND BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	. 0	0 P I C T I S	S L F	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS				NOT SPECIFIED (PRESENT)
HEARTCARDIONYOPATHY				NOT SPECIFIED(MILD)
LUNGS	JEHONARY ARTERIE			NOT SPECIFIED(TRACE)
LYMPH MODES			:	REACTIVE HYPERPLASIA NOTED IN CERVICAL LYMPH NODE. Not specified (present)
LIVER	DUND RELATED INFLAMMATORY REACTIODUND RELATED INFLAMMATORY REACTIODUCTULE EPITHELIAL HYPERPLASIA A TITIS TOCYTIC VACUOLIZATION RESENCE OF METASTATIC SARCOMA	TOM AND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
KIDNEYPROGRESSIVE RENAL DISEASE	SEASE			NOT SPECIFIED (MARKEG)
PROSTATE		•	•	

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	DATA GLP83
/PRETEST= 15 SEX: MALE STUDY DAY OF DEATH: 736	1 OF DEA
	O B S E R V A T I O N S >> O ISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATECARONIC PROSTATITIS - BENIGN NYPERPLASIA	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
PANCREAS	FOCAL(TRACE) FOCAL(TRACE) (PRESENT)
STOMACHCOMPOUND RELATED INFLAHMATORY REACTION	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
ADREMAL	ONLY ONE ADREWAL GLAND SAVED FOR HISTOLOGIC EXAMINATION.
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PAIN SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
AMIMAL MUMBER: 15/PRETEST# 15 SEX: MALE DATE OF DEATH: 27-JAN-86 STUDY DAY OF DEATH: 736	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 376.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ABDOMINAL CAVITY	THE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. IN MANY AREAS IT IS FORMING OSTEOID, SOME OF WHICH IS MINERALIZED. THESE AREAS ARE ITYPICAL OF OSTEOSARCOMA. IN ONE SMALLER AREA THERE IS NO OSTEOID, AND THE MICROSCOPIC APPEARANCE IS THAT OF A FAIRTY WELL-DIFFERENTIATED FIBROSARCOMA.
DIAPHRAGMSARCOMA	

DIV ON RESENTANT ANTI VISTORIE OF RESENCE 100 VORES BAZINGERENAND 100		7	Appendix	2	(conc.)	•	FATROLOGI		TUDGEATOUT		TVETUV	VIVA		
11-DEC-85 STUDY DAY OF DEATH: 689 STUDY WEEK OF DEATH: 99 TERNI CENTRAL SECONDENTS ADMESTOR(S) ATHOLOGIC FINDINGS	LETTERMAN ARNY DIV OF RES SUP SPECIES: RAT/F	INSTITUTE (P, PATH SER! ISCHER-344			STUDY	¥	ADIVIDUAL STUDY DATE: 23		TA REPOR P83009		TUDY TY	PE: CHR	PRINTE PAG ONIC/2 YR	D: 21-NOV-89 E: 22 CARCINGGENI
PRESENT / MASS(ES) / MASS(ES) / MASS(ES) PRESENT PRE	MIMAL NUMBER:	16/1 11-DEC-85	PRETEST= STUDY DAY	16 0F DEA	. s –	9	DOSE GR STUDY W	~ ~	SACRI EATH: 99	FICE STATUS TERMINAL	SACRI BODY W	FICED M	ORIBUND 370.00	(GNS)
PRESENT / MASS(ES) PRESENT ION S C O P I C T I S S U E ACTION SIA AND/OR CHOLANGIOFIBROSIS ILEAR CELLS AA	RGAN NAME	*	G R O S S EYVORDS / PN	ORG RASES	Z <	s	EVERITY	T I O	S >> REE-TEXT CO	DAMENTS	, , , , ,	4 • • • •	# 4 0 0 0 4 4 4	• • • • • • • • • • • • • • • • • • •
TION PRESENT PRESENT O S C O P I C T I S S U E ACTION SICAND/OR CHOLANGIOFIBROSIS SICAR CELLS AA	•	. 2 3	DHESION(S) ROWTH(S) / M				RESERT	DIAPHRA LARGE, 2CH DIA	GM, VENTRA- FIRM, WHITI METER MODUL	L ABDOMINAL E, INVOLVES E EXTENDING	WALL MOST O	F LIVER GH THE	AND HAS Diaphragh	<
S C O P I C T I S S U E ACTION SIA AND/OR CHOLANGIOFIBROSIS SIEAR CELLS AA	ESTES ITUITARY GLAM		ROUTH(S) / M iscoloration	ASS(ES)		<i>a</i> . <i>a</i> .	RESENT	INTO TH BILATER FOCAL,	E THORACIC AL, MULTIP BLACK, .2CI	CAVITY. Le variably I diameter	SIZED,	YELLOW	_	
NDS DLICULAR CELL ADENOMA MYPERPLASIA	ISSUE / MISTO	** VATHOLOGIC	M I C R O S FINDINGS	I d 0 3	:	<i>S</i>	. u e	O B S E	R V A T I	ONS >>	ECIAL G	OMMENTS		
HYPERPLASIA HYPERPLASIA SELATED INFLAMMATORY REACTION JLE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS IC VACUOLIZATION SELLULAR ALTERATION - CLEAR CELLS SE OF METASTATIC SARCOMA WE REMAL DISEASE SERPLASIA COLE	NYROID GLANDS -B- PARA-FOLL	ICULAR CELL	ADENOMA	•			•	(PRESENT	•					
MYPERPLASIA RELATED INFLAMMATORY REACTION LE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS IC VACUOLIZATION CELULAR ALTERATION - CLEAR CELLS E OF METASTATIC SARCOMA VE REMAL DISEASE REMAL DISEASE REPLASIA	-CARDIOMYOPAT			:		:	•	NOT SPE	CIFIED (MILC	2				
ND RELATED INFLAMMATORY REACTION UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS CYTIC VACUOLIZATION DF CELLULAR ALTERATION - CLEAR CELLS SENCE OF METASTATIC SARCOMA SSIVE REMAL DISEASE PROSTATITIS HYPERPLASIA	YMPH HODES .	ERPLASIA		•	•	:			E HYPERPLA! CIFIED (PRE	SIA NOTED II SENT)	N CERVI	CAL LYM	PH NODE.	
SSIVE REMAL DISEASE DROSTATITIS HYPERPLASIA NOT	-COMPOUND REL- BILE DUCTULE -HEPATOCYTIC -FOCUS OF CEL- M- PRESENCE	ATED INFLAMP EPITHELIAL VACUOLIZATIC LULAR ALTERA DF METASTATI	HATORY REACT HYPERPLASIA ON ATION - CLEA IC SARCOMA	AND/OR A CELLS	CHOLAN	G 10F 1BR	•	NOT SPE NOT SPE MULTI-F NOT SPE SECONDA	CIFIED (PRI CIFIED(MILI OCAL(MILD) CIFIED(TRAC RY NEOPLASP	ESENT))): :E) :FROM ORGAN	A ABDOM	INAL CAV	Y1 1 Y	
C PROSTATITIS NOT NYPERPLASIA FISICIF	PROGRESSIVE	REMAL DISEAS	:	•			•	NOT SPE	CIFIED(MILE	2				
	ப =	TATITIS			:			NOT	CIFIED(TRAC	99				
	SEMINAL VESICL				•		•							

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
STUDY START	NDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
STUDY DAY OF DEATH: 689	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 99 TERMINAL BODY WEIGHT: 370.00 (GMS)
ROSCOPIC TISSUE NGS	O B S E R V A T I O R S ->- DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	FOCAL (MILD)
MANMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
MEDIASTINUM	MISCELLANEOUS TISSUE SECONDARY MEOPLASM FROM ORGAN
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE THIS SARCOMA INVOLVES PRIMARILY THE LIVER. IT EXTENDED THROUGH THE DIAPHRAGM INTO THE THORACIC CAVITY. THE NEOPLASM IS POORLY DIFFERENTIATED. IN SOME AREAS IT HAS MYXOMATOUS APPEARANCE. ELSEWHERE IT IS HIGHLY ANAPLASTIC.

	ڪ ص	J (cont.):	::	PA	THOLO	ξĶ	PATHOLOGY INDIVIDUAL ANIMAL DATA	AL A	NIMAL	DATA			
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUD	r STAI	INDIVI ST ST DATE	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	IMAL (1868: 18-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84		STUDY	TYPE: CHR(PRINT PA DHIC/2 Y	PRINTED: 21-NOV-89 PAGE: 24 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	۵ 2
ANIMAL MUMBER: 16/PRETEST= 16 SEX: MAI DATE OF DEATH: 11-DEC-85 STUDY DAY OF DEATH: 689	16.5 F DEAT	16 SEX: MALE DEATH: 689) (E	008 STU	DOSE GROUP: 1 STUDY WEEK OF D	1. 0.	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 99 TERMINAL BODY WEIGHT: 370.00 (GMS)	ICE STA	TUS: SAC	SACRIFICE STATUS: SACRIFICED MORIBUND 99 TERMINAL BODY WEIGHT: 370.	370.0	SACRIFICE STATUS: SACRIFICED MORIBUND: 99 TERMINAL BODY WEIGHT: 370.00 (GMS)	:
TISSUE / MISTOPATHOLOGIC FINDINGS	 	ပ	- -	0 P . C T . S S U E	0 0 1	STR 18L	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S	>> SPECIAL	COMMENTS	•	U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	:
DIAPHRAGM MISCELLANEOUS TISSUE GROSS DESCRIPTION IND THE DIAPHRAGM INTO TH THE DIAPHRAGM INTO TH THORAX A TUMOR IN THE THORAX A NEITHER SECTION HAS T						SCELLA OSS DE E DIAP HOR IN	MISCELLANEOUS TISSUE GROSS DESCRIPTION INDICATES THAT THE SARCOMA EXTENDED THROUGH THE DIAPHRAGM INTO THE THORACIC CAVITY. SECTION #21 IS FROM TH TUMOR IN THE THORAX AND SECTION #22 IS FROM THE LIVER MASS. NEITHER SECTION HAS TISSUE FROM THE DIAPHRAGM.	ND I CAT THE TH AND SI	ES THAT DRACIC C ECTION #	THE SARCOM VVITY. SEC 22 IS FROM 1E DIAPHRA	A EXTENITION #2: TION #2: THE LI	MISCELLANEOUS TISSUE GROSS DESCRIPTION INDICATES THAT THE SARCOMA EXTENDED THROUGH THE DIAPHRAGM INTO THE THORACIC CAVITY. SECTION #21 IS FROM THE TUMOR IN THE THORAX AND SECTION #22 IS FROM THE LIVER MASS. MEITHER SECTION HAS TISSUE FROM THE DIAPHRAGM.	

H STUDY START DA	DIVIDUAL ANIMAL DATA REPORT DIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
18 SEX: MALE DEATH: 736	: 1 SACRIFICE STATUS: FINAL SACRIFICE OF DEATH: 106 TERMINAL BODY WEIGHT: 3
C G R O S S O R G A N O B S KEYWORDS / PHRASES S	T I O N S >> GROSS FREE-TEXT COM
SPLEEN PROMIMENT FIBROUS CAPSULE PRESENT LIVER ADMESION(S) PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	.5CM AREA .5CM AREA DIAPHRAGM, SMALL INTESTINE AND VENTRAL ABDOMINAL WALL BILATERAL, YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
EXORBITAL LACRIM	TISSUE IS MISSING
HEART	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUNGS	. NOT SPECIFIED(TRACE)
SPLEEN	. NOT SPECIFIED(TRACE)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
KIDMEYPROGRESSIVE RENAL DISEASE	. NOT SPECIFIED(MILD)

Appendix	J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009
18/PRETEST# N-86 STUDY DAY	18 SEX: MALE : DEATH: 736	DOSE GROUP: 1 SACRIFICE STATUS: FIWAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 369.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLEGENERALIZED ATROPHY		NOT SPECIFIED (PRESENT)
TESTES		(PRESENT)
JEJUNUM		
MANMARY GLANDS	ACINAR TISSUE	NOT SPECIFIED(TRACE)
HOSE/TURBINATES	MASAL CAVITY, SINUSES,	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS BILATERALLY. Not specified(moderate)
PITUITARY GLAND8- ADENOMA		(PRESENT)
EYES & OPTIC N	SRALIZATION, SCLERA	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
DIAPHRAGM		MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009 STUDY T
ANIMAL NUMBER: 19/PRETEST# 19 SEX: MALE DOSE G DATE OF DEATH: 27-JAM-86 STUDY DAY OF DEATH: 736 STUDY	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 377.00 (GMS)
8 0 N C B	S E R V A T I D M S >> SEVERITY GROSS FREE-TEXT COMMENTS
	CHRONIC BILATERAL, 2.5 x 1.5CM BILATERAL, YELLOW DIAPHRAGM
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
LYMPH HODES	BROWN PIGHENT PRESENT IN MEDIASTINAL MODE ONLY. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
FROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	GLP83009 STUDY TYPE: CHRONIC/2 YR CA
ANIMAL NUMBER: 19/PRETEST# 19 SEX: MALE DOSE GROUP: DATE OF DEATH: 736 STUDY WEEK O	SACRIFICE STATUS: FIN IF DEATH: 106 TERMINAL BODY
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SKIM	A CYSTIC CAVITY FILLED WITH KERATIN AND SUPPURATIVE EXUDATE, COMPATIBLE WITH KERATOACANTHOMA, PRESENT ON SKIN OF THE TAIL. (PRESENT)
PITUITARY GLANDCYST(S)	NOT SPECIFIED (PRESENT)
ABDOMINAL CAVITY MISCELLANEOUS TISSUE INTRA-ABDOMINAL ADHEI FINOINGS THAT CORREST	MISCELLANEOUS TISSUE Intra-abdominal adhesions were the only gross or Microscopic Findings that correspond to the Intra-abdominal "Mass" reported
-CMRONIC INFLAMMATION DUE TO THE PRESENCE OF TEST COMPOUND (SITE SPECIFIED IN COMMENTS)	NOT SPECIFIED (PRESENT)
DIAPRRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
STUDY START	DATA GLP83
3-OCT-85 STUDY DAY OF DEATH: 620	SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 89 TERMINAL BODY WEIGHT: 410.00 (GMS)
C G R O S S O R G A N O B S E R V A KEYLORDS / PHRASES SEVERITY	T I O N S >> GROSS FREE-TEXT COMMENTS
PERITONEAL CAV. ADMESION(S) PRESENT TAYROID ENLANGED MARKED LIVER ADMESION(S) PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRILD MILD	SEVERAL LOOPS OF SMALL INTESTINE ADHERED TO LIVER 6 x 4 x 3mm, white with disseminated nemorrhages Diaphragm 3mm diameter, black with white capsule, soft
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESERT)
HEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
LYMPN MODES	REACTIVE MYPERPLASIA INVOLVES CERVICAL LYMPH NODES. RBC'S ARE PRESENT IN MEDIASTINAL NODES. NOT SPECIFIED (PRESENT)
SINUSES IYPERPLASIA	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -DILE DUCTULE EPITMELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATITIS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
TESTES	

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
Appendix J

LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCNER-344 SPECIES: RAT/FISCNER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
20 SEX: MALE F DEATH: 620	DEATH
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	MULTI-FOCAL(MILD)
ILEUMCOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED(MILD)
PITUSTARY GLAND	(PRESENT)
EYES & OPTIC N	MILD DEGENERATIVE CHANGES ARE IN THE LENS OF ONE EYE. NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
N IN STUDY START	DATA REPORT GLP83009
21 SEX: MALE DOF DEATH: 586 S	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 354.00 (GMS)
ORGAN OBSEV	
PERITONEAL CAV. ADMESION(S) PRESENT LIVER ADHESION(S) PRESENT	SECTION OF SMALL INTESTIME ADHERED TO PERITONEAL WALL IN RIGHT FLANK ABOUT 18CM FROM STOMACH.
C NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	FOCAL(TRACE)
LACRIMAL GLAND	. INFLAMMATION IN THE LACRIMAL GLAND IS UNILATERAL. DIFFUSE(MARKED)
HEARTCARDIONYOPATHY	. NOT SPECIFIED(MILD)
LUMGSALVEOLAR ADENOMA	. (PRESENT)
•	
-RED BLOOD CEELS, MEMOSIDERIM AND/OR ERTTHROPHAGOCYTOSIS WITHIN MEDULLARY SIMUSES -REACTIVE NYPERPLASIA	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)
KIDKEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
PROSTATE	

	€	v ppenatr.	conc.):	LATE DE LA	FAIRULUST ANDLY LUDAL ANIMAL DATA	ATA .
LETTERMAN ARNY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	IF RESEARCH	I STUDY START	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 33 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBEL	ANIMAL NUMBER: 21/PRETEST= DATE OF DEATH: 30-AUG-85 STUDY DAY		21 SEX: MALE OF DEATH: 586	DOSE GROUP STUDY WEEK	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 354.	ICED MORIBUND IGHT: 354.00 (GMS)
T18SUE / H1S	C N I C N O S C TISSUE / MISTOPATHOLOGIC FINDINGS		0 P I C T I S S U E	• • •	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ZZEZTS
PROSTATE	COSTATE	URETHRA		NOT	NOT SPECIFIED(SEVERE) NOT SPECIFIED (PRESENT)	
SEMINAL VESICLE -GENERALIZED AI	EMINAL VESICLE			NON	NOT SPECIFIED (PRESENT)	
TESTES	ESTES	NONA		:	(PRESENT)	
DUODENUM		•		A A A D B B B B B B B B B B B B B B B B	ADHESION OF FIXED TISSUE IN ATTEMPT TO DEMONSTRATE ADHESION OF SMALL INTESTINE WERE UNSUCESSFUL. HOWEVER, THERE IS A SMALL FIBROUS ADHESION ON PERITONEAL SURFACE PRESENT IN SECTION #12W WHICH PROBABLY REPRESENTS THE LESION DESCRIBED. GROSSLY.	TEMPT TO DEMONSTRATE UCESSFUL, HOMEVER, THERE IS AL SURFACE PRESENT IN TS THE LESION DESCRIBED
RECTUM		•			TISSUE IS MISSING	
MOSE/TURBINATES - MIXED INFLAMMA TURBINATES, MA	= = =	TORY CELL INFILTRATION,	NASAL CAVITY, SINUSES	USES, NOT		-LACRIMAL DUCT.
PITUITARY GLA	PITUITARY GLAND		TISSUE IS MISSING	111	SSUE IS MISSING	

F DEATH: 29-JAN-86 STUDY DAY OF C G R O S O C G R O S O ADMESION(S) GRANULAR SURFACE MODULE				STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
PHRASE PHRASE SURFACE	22 SEX: MALE DEATH: 738	DOSE GROUP: 1 STUDY WEEK OF	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT:	INAL SACRIFICE DY WEIGHT: 334.00 (GNS)
	2 0 3 4 9	*	T I O N S >> GROSS FREE-TEXT COMMENTS	
FALARGED		•	RIGHT VENTRAL ABDONINAL WALL BILATERAL 3CH DIAMETER BILATERAL, 3 X 1.5CM	
TESTES GROWINGS) / MASS(ES) THYMUS GENERALIZED ATROPHY THYROID ENLARGED CECUM ADNESION(S) SM INTESTIKE ADNESION(S)		PRESENT PRESEN	MULITYLE, VAKIABLT SIZED, TELLUM/BLALK. .6CM DIAMETER, MOTTLED RED AND WHITE ABDOMINAL WALL SEVERAL LOOPS ADMERED TOGETHER	MHITE
TISSUE / NISTOPATHOLOGIC FINDINGS	2 1 1 2 1		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECI	SPECIAL COMMENTS
THYROID GLANDS	•	•	(PRESENT)	
PARATHYROID		_	TISSUE IS MISSING	
MEART			NOT SPECIFIED (MILD) NOT SPECIFIED (TRACE)	
LUNGS		:	NOT SPECIFIED(TRACE)	
SPIEEN		*	NOT SPECIFIED (PRESENT)	
LYMPH MODES			MARKED REACTIVE NYPERPLASIA NOTED IN CERVICAL LYMPH NODE NOT SPECIFIED (PRESENT)	ED IN CERVICAL LYMPH NODE.

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
RCH STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: CHROWIC
22 SEX: MALE OF DEATH: 738	ICE ST TERM
TISSUE / MISTOPATHOLOGIC FIRDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) MULTI-FOCAL(TRACE) MULTI-FOCAL(MODERATE) NOT SPECIFIED (PRESENT)
KIDNET	NOT SPECIFIED(MARKED)
PROSTATE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
CECUM	NOT SPECIFIED (PRESENT)
SKIR	TISSUE IS MISSING
MANMARY GLANDS	TISSUE IS MISSING
ADREMAL	MOT SPECIFIED(TRACE)
DIAPHRAGM MISCELLANEOUS TISSUE	MISCELLANEOUS TISSUE

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
ix
Append i

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83009 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
ANIMAL NUMBER: 22/PRETEST= 22 Date of Death: 29-Jan-86 Study day of De	22 SEX: MALE DEATH: 738	DOSE GROUP: 1 STUDY WEEK OF DEAT	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 334.00 (GMS)
TISSUE / MISTOPATMOLOGIC FINDINGS		SUE OBSER DISTRIBUTI	PIC TISSUE OBSERVATIONS >>

DIAPWRAGM MISCELLAWEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESENT)

APP LETTERNAN ARNY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344	endix J (cont.): ESEARCH STUDY STAR	ORT.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY STARI DATE: 23-JAN-84 STUDY STARI DATE: 23-JAN-84
ANIMAL NUMBER: 23, DATE OF DEATH: 29-JAM-66	PRETEST= 23 SE STUDY DAY OF DEATH	SACRIFICE STATU DEATH: 106 TERMINA
ORGAN NAME	ES A N O B	A T I O N Y GROSS F
SPIES LIVER	ENLARGED (SPLENOMEGALY) ADHESION(S) DISCOLORATION GRANULAR SURFACE DISCOLORATION PR	MARKED 8.5 X 2.5CM PRESENT STOMACH, DIAPHRAGM, VENTRAL ABDOMINAL WALL PRESENT WHITE, MULTIFOCAL, LOBULAR PRESENT PINPOINT, WHITE PRESENT PULTIFOCAL
A MISTOPATHOLOGIC FINDINGS	0860716 7188	U E O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID		TISSUE IS MISSING
NEART	-CARDIOMYOPATHY -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED (MILD) (PRESENT)
-NIMERALIZATION OF PU-N-LARGE GRANULAR LY-ALVEOLAR HEMORRHAGE	UNGS	NOT SPECIFIED(TRACE) (PRESENT) HULTI-FOCAL (PRESENT)
THYMUS	NYMUS	(PRESENT)
SPLEEN	PLEEN	(PRESENT)
LYMPH NODES	YMPH HODES	LGLL PRESENT IN CERVICAL, MEDIASTINAL, AND MESENTERIC NODES.
LIVER	IVERCOMPOUND RELATED INFLAMMATORY REACTION	MOT SPECIFIED (PRESENT)

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
Appendix J

LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF DES RIDE DATH REDUCED.	DATA REPORT
STUDY START DATE: 2	MLF03007 STUDY TYPE: CHRO
23 SEX: MALE DEATH: 738	SACRIFICE S H: 106 TER
	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE CHRONIC PROSTATITIS -BERIGE HYPERPLASIA	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	WOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	MOT SPECIFIED(TRACE)
STOWACH	NOT SPECIFIED (PRESENT)
SCIATIC MERVE	TISSUE IS MISSING
MANHARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBIMATES	CELLULAR INFILTRATE IS ADJACENT TO NASO-LACRIMAL DUCT. Not specified(trace)
BORE, STERRUR	

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DIV SPEC	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES BUPP, PAIN SERV GP SPECIES: RAI/FISCNER-344	ARMY S SUPP SAT/FI	PAT SCHER	TUTE (OF RES	SEARCH			STUD	Y ST.	IND.	STUD STUD LTE:	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jam-84	IIMAL Ber: N-84	DATA GLP8	REP0 3009	E		STUD	Y TYP	PRINTED: 21-NOV-89 PAGE: 39 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	PR TONIC/	PRINTED: 21-NOV-89 PAGE: 39 C/2 YR CARCINGENI	NTED: 21- PAGE: 39	- NOV-	-89 -183 -183 -183 -183 -183 -183 -183 -183
ANIN	ANIMAL NUMBER: 23/ Date of Death: 29-Jam-86	DER:	29- JA	. =	23/PRETEST= 86 STUOY	PRETEST 23 SEX: MALE STUDY DAY OF DEATH: 736	9	23 SI DEAT!	X	ALE		OSE	DOSE GROUP: 1 STUDY WEEK OF	9	EATH	SACR 106	I FICE	STAT	US: F	INAL	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT:	3	379.00 (GMS)	(GNS		
	TISSUE / MISTOPATHOLOGIC FINDINGS	115106	ATHOL	E / MISTOPATHOLOGIC FINDI	M I C	A M C R O S C		-	! !	-	3 N S C L C L C S C E	ш	0 2	STR 18	× 01 TU	A T	(SEVERITY	S >> Y) / SPEC	SPECI	V C0	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS					
BONE - N -	BONE, STERNUM -N- LARGE GRA	RECH GRAK	ULE L	YNPHO	CYTE L	ONE, STERNUM	•	METASTATIC	ATIC	:		:	: (P.	(PRESENT)	^											
- H-	BONE, FENUR -N- LARGE (GRAN	ULE L	YMPHOC	CYTE L	ONE, FEMUR	•	METASTATIC	ATIC				•	(PRESENT)	_											
BONE	VERT Large	GRAN	ULE L	YMPHO	CYTE L	VERT		METASTATIC	ATIC	•	METASTATIC			(PRESENT)	_											
EYES -NE	& OPT	IC M.	ONE	ORMAT	ION AN	EYES & OPTIC N	I KER	AL 12/	T. 0 W	FRALIZATION, SCLERA	LERA	•	9	T SPE	CIFIE	G) (P	NOT SPECIFIED (PRESENT)	-								
WKOL.	E BODY LARGE	GRAN	ULAR	LYMPHC	0CY11C	WHOLE BODY	MIA		:			:	: (PR	(PRESENT)	^										•	
D 1 A P	DIAPHRAGM -COMPOUND	RELA	160	NFLAM	HATORY	IAPHRAGM	NO		:				:	SCELL T SPE	ANEOL CIFIE	11 SU	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	2								

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA 1VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 ATE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
24 SEX: MALE AY OF DEATH: 712	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 315.00 (GMS)
COROS ORGAN ORCAN	
LIVER ADMESION(S) PRESENT TESTES ENLARGED PRESENT TESTES GROUTH(S) / MASS(ES) PRESENT PITUITARY GLAND DISCOLORATION PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL, STOMACH LEFT, 3 X 2CM MULTIPLE VARIABLY SIZED, YELLOW/BLACK FOCAL, BLACK, .2CM DIAMETER
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAIN	MULTI-FOCAL(MILD) DIFFUSE(MILD)
MEART	MOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGSMINERALIZATION OF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	(PRESENT)

	Appendix	ט	(con	J (cont.):	PATHO	LOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	E OF RESEARCH		S	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DIVIDUAL Study Date: 23	VIDUAL ANIMAL DATA REPC Study Number: Glp83009 Te: 23-Jan-84	ATA LP83	STUDY T	PRINTED: 21-NOV-89 PAGE: 41 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL WUNDER: 24/PRETEST# DATE OF DEATH: 03-JAN-86 STUDY DAY	24/PRETEST= 86 STUDY DAY C		24 SEX: MALE DF DEATH: 712	24 SEX: MALE F DEATH: 712	DOSE GE STUDY V	DOSE GROUP: 1 STUDY WEEK OF DE	¥ 1,	STATUS: SACR	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 315.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OGIC FINDINGS		o -	OPIC TISSUE	J .	O B S E	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	\$ >> / SPECIAL	SERVATIONS >> RIBUTION (SEVERITY) / SPECIAL COMMENTS
STONACH	MMATORY REACT					THERE I		OMACH TO L1	/ER.
-COMPOUND RELATED INFLAMMATORY REACTIO	MMATORY REACT					MISCELL,	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)		

DATA
ANIMAL
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Appendix

= = = =	ESEARCH	INDIVIDUAL ANIMAL STUDY WUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHR
NUMBER: 29-JAM-80	/PRETEST STUG	! ! !	
ORGAN MANE 165165 1765165 1765165 1767167 1767167 1767167 1767167	KEYWORDS / PHRASES ENLARGED GROUTH(S) / MASS(ES) ADMESION(S) ADMESION(S) GROUTH(S) / MASS(ES)	SECENT SECENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT	T I O N S >> GROSS FREE-TEXT COMMENTS BILATERAL, 2.75 X 1.75CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW DIAPHRAGM LIVER BOTH OF THE TERM
TISSUE / NISTOPATHOLOGIC FINDINGS	MICROSCOPIC: FINDINGS	- 1 S S C E	OSSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	CELL, LIG	HT CELL)	NOT SPECIFIED(MODERATE) TISSUE IS MISSING
MEART	ONYOPATNY L NYPERTROPNY OF MUSCULAR ARTERIES		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	IONARY ARTERIES		NOT SPECIFIED(TRACE)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND -NEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - CLEAR CI -BENIGM HYPERPLASTIC MODULE(S) -FOCUS OF CELLULAR ALTERATION - EOSINOPI		/OR CHOLANGIOFIBROSIS LLS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) FOCAL(MILD) MULTI-FOCAL(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
STUDY START DA	
ANIMAL NUMBER: 25-JAN-86 STUDY DAY OF DEATH: 738 STUDY STUDY OF DEATH: 738	K 0f
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDMEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(MILD) Not specified(trace)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	
STOMACHSUBMUCOSAL EDEMA	MOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
ABDONINAL CAVITY MISCELLANEOUS TISSUE	MISCELLAMEOUS TISSUE

Appendix J LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 ANIMAL WUNDER: 25/PRETEST= 2 DATE OF DEATH: 29-JAN-86 STUDY DAY OF D TISSUE / MISTOPATHOLOGIC FINDINGS ABDOMINAL CAVITY	# K K K K K K K K K K K K K K K K K K K	10010	STUDY START DATE STUDY START DATE STUDY START DATE STUDY P I C T I S S U E		NATE: STUDY	(CODE.): PATBOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAN-64 STUDY START DATE: 23-JAN-64 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC SEX: MALE DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERNINAL BODY WEIGHT: 382.00 (GMS) I C T I S S U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS THE SARCOMA IS A SMALL LESION LIMITED TO THE LIVER. IT IS VERY POORLY DIFFERENTIATED AND ANAPLASTIC WITH MUMEROUS LARGE	L DATA L GLP8 4 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOGY INDIVIDUAL ANII ANIMAL DATA REPORT JOHNER: GLP83009 SI SACRIFICE STATUS EEK OF DEATH: 106 TERNINAL O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPE THE SARCOMA IS A SMALL LESION POORLY DIFFERENTIATED AND ANA	UAL T FICE S FICE S FI FICE S FICE S FICE S FICE S FICE S FICE S FICE S FICE S FICE S	STATUS: TATUS: MINAL V V V V V V V V V V V V V V V V V V V	CIAL C	ANIMAL DATA REPORT JUNBER: GLP83009 JAN-64 STUDY TYPE: CHRONI UP: 1 SACRIFICE STATUS: FINAL SACRIFICE EEK OF DEATH: 106 DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS THE SARCOMA IS A SMALL LESION LIMITED TO THE IPPORLY DIFFERENTIATED AND ANAPLASTIC WITH NUMI	PRINTED: 21-NOV-89 PAGE: 44 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC S: FINAL SACRIFICE L BODY WEIGHT: 382.00 (GMS) PECIAL COMMENTS ON LIMITED TO THE LIVER. IT IS VERY NAPLASTIC WITH NUMEROUS LARGE	MTED: 21-1 PAGE: 44 YR CARCII 00 (GMS)	PRINTED: 21-NOV-89 PAGE: 44 C/2 YR CARCINOGENIC 382.00 (GMS) LIVER. IT IS VERY EROUS LARGE
-M- SARCOMA, CELLULAR DIFFERENTIATION UNSPECIFIED	ATION C	NSPE(31 F 1 ED			MULTINUC (PRESENT)	NUCLEA NT)	MULTINUCLEATED TUMOR GIANT CELLS. Present)	10R G1	ANT CE	.118				

DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION

Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
TE OF RESEARCH Serv GP 44 STUDY STAR	AL DATA REPORT R: GLP83009 84 STUDY TYPE: CHRONI
UNBER: 26/P	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 92 TERMINAL BODY WEIGHT: 409.00 (648)
¥	A T I O M S >> Y GROSS FREE-TEXT COMMENTS
LIVER LIVER ADMESTON(S) TESTES GROUTH(S) / MASS(ES) TESTES ENLANGED SENIMAL VESICLE LUNGS TRACHEA FOOD STUFF PRESENT	PRESENT DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES PRESENT DIFFUSE, VARIABLY SIZED, IRREGULAR, BLACK/RED/WHITE PRESENT 4 x 2 x 1cm, GELATINOUS PRESENT FLACID, GRAY MARKED HILD
TISSUE / MISTOPATHOLOGIC FINDINGS	S U E O B S E R V A T 1 O N S >> S U E O B S E R V A T 1 O N S >> COMMENTS
TRACHEA	TISSUE IS AUTOLYTIC
THYROID GLANDS	TISSUE IS AUTOLYTIC
PARATHYROID	TISSUE IS MISSIRG
MEART	NOT SPECIFIED(MILD)
LUMGS	NOT SPECIFIED(TRACE)
TAYAUS	STISSIE IS AISSIEC
LIVER	MOT SPECIFIED (PRESENT) ROSIS MOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MILD)
PROSTATE	

Appendix J (cont.): PATE	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	DATA REPORT GLP83009
26 SEX: WALE DEATH: 641	: 1 SACRIFICE STATUS: FOUND DEAD OF DEATH: 92 TERMINAL BODY WEIGHT: 409.00 (GMS)
CANTINDER / MISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTES	. (PRESENT)
DUOD ENUM	TISSUE IS AUTOLYTIC
JEJUNUM	COMPOUND RELATED INFLAMMATORY REACTION AND ADHESION TO BODY WALL. NOT SPECIFIED (PRESENT)
ILEUM	. TISSUE IS AUTOLYTIC
CECUM TISSUE IS AUTOLYTIC	. TISSUE IS AUTOLYTIC
RECTUR	. TISSUE IS AUTOLYTIC
NOTOO	. TISSUE IS AUTOLYTIC
MAMMARY GLANDS	. MOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	. (PRESERT)

	PRINTED: 21-NOV-89 PAGE: 47 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	SACRIFICE STATUS: FOUND DEAD ATH: 92 TERMINAL BODY WEIGHT: 409.00 (GMS)			
	21-H 47 IRC140	SE .			
	NTED: 21- PAGE: 47 YR CARCI)) Q			
	PRINT P.	409.00 (GMS)			
	ROM		s ·		
PATHOLOGY INDIVIDUAL ANIMAL DATA		26 SEX: MALE DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD F DEATH: 641 STUDY WEEK OF DEATH: 92 TERMINAL BODY WEIGHT:	DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS		
2	TYPE	SACRIFICE STATUS: FOUND DEAD 92 TERMINAL BODY WEIGHT	80		
75	VO Y	F00.	CIAL		
	S	TUS:	\$.		
<u>۔</u>		STA	DISTRIBUTION (SEVERITY) / SPI		Ē
NO.	E	FICE	E .	21.	SUE
F	200 200 200	SACR 92	SE.	OLY1	11 S
	ATA	¥	> 5	S AUI	FIED
H	ق ق	DOSE GROUP: 1 STUDY WEEK OF DEAT!		JE 13	MISCELLAMEOUS TISSUE Not Specified (present)
Q	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DOSE GROUP: 1 STUDY WEEK OF DE	9 18 1	T I SSI	41 SCI
HOI	UAL DY M	GRO Y VE		:	:
PAT	STU STU ATE:	STUD			
_	M T D		S		:
 ~	STA	m m	0 7 1 C T 1 S S U E		
J (cont.):	TUBY	26 SEX: MALE Death: 641		:	:
ပ္ပ	S .	SEX ATH:	5		
ם		26 F 0E	0		
	ETTERMAM ARMY INSTITUTE OF RESEARCH IV OF RES SUPP, PATM SERV GP PPECIES: RAT/FISCHER-344	AMIMAL NUMBER: 26/PRETEST= 26 SEX: MAI Date of Death: 24-Oct-85 Study day of Death: 641	S S	EVES & OPTIC M TISSUE IS AUTOLYTIC	DIAPURAGN MISCELLANEOUS TISSUE -CONPOUND RELATED INFLAMMATORY REACTION
Appendix	EARC	4	OGIC FINDINGS		REA
å		26/PRETEST= 85 8TUDY	2		TORY
4		5/1	# L		AMMA
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1)CT-	, , , ,		IMFL
	E SCE	24-0	ATHG	:	160
	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	DER:	TISSUE / MISTOPATHOLOGIC FINDINGS	IC N.	REL
	MAM	E OE	= -	140	NGM SCHOOL
	TTER V OF ECIE	AKIRAL BUMBER: DATE OF DEATH:	SSUE	44 55	VP KR.
	252	4	Ξ:	EY	2

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	Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
UNBER: DEATH: 28-AUG-	. •	E STATUS: SACRII TERMINAL BODY WI
ORGAN NAME K SKIN S TESTES	GROSS ORGAN OB KEYWORDS / PHRASES SUBCUTANEOUS MASS GROWTH(S) / MASS(ES)	S E R V A T I O M S >> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT LEFT AXILLARY REGION, FIRM, WHITE, 6 X 5 X 4CM PRESENT MULTIPLE, IRREGULAR, COALESCING, VARIABLY SIZED, WHITE,
TESTES TESTES LIVER CECUM	ATROPHIC / SMALL, UNILATERALLY ENLARGED ADMESION(S) ADMERED TO PERITONEAL WALL	MODERATE RIGHT, 1 X .5CM TRACE LEFT, 2 X 1CM PRESENT DIAPHRAGM, VENTRAL ABDOMINAL WALL
TISSUE / HISTOPATHOLOGIC FINDINGS	MICROSCOPIC 11S	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
NEART	ONYOPATHY L NYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGSPERIBRONCHIAL LYMPHOID HYPERPLASIA	D HYPERPLASIA	NOT SPECIFIED(MILD)
LYMPH HODES RED BLOOD CEELS, NEMOS MEDULLARY SINUSES	YMPH HODES	S WITHIN NOT SPECIFIED (PRESENT)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION - BILE DUCTULE EPITNELIAL NYPERPLASIA AND	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) BROSIS NOT SPECIFIED(MILD)
KIDMEYPROGRESSIVE REMAL DISEASE	EASE	NOT SPECIFIED(MILD)
PROSTATE	HYPERPLASIA	MOT SPECIFIED(TRACE)

TESTES

Appendix J (cont.): PATHOLOGY INDIVIDUAL AN OF RESEARCH STUDY NUMBER: GLP83009
STUDY START DATE: 25-JAN-84 27/PRETEST= 27 SEX: MALE DOSE GROUP: 1 28-AUG-85 STUDY DAY OF DEATH: 584 STUDY WEEK OF
TISSUE / MISTOPATHOLOGIC FINDINGS COPIC TISSUE OBSERVATION (SEVERITY) / SPECIAL COMMENTS
TESTES
CECUM
-COMPOUND RELATED INFLAMMATORY REACTION
SKIM THE MASS IN THE LEFT AXILLARY REGION IS A SUBCUTANEOUS FIBROMAB- FIBROMA
MOSE/TURBINATES
EYES & OPTIC N
DIAPHRAGM

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LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2
PRETERT 28 SEX: MALE STUDY DAY OF DEATH: 738	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 377.00 (GMS)
ORGAN WAME KEYLORDS / PHRASES SEVERITY LIVER ADMESTOR(S) TESTES GROWTH(S) / MASS(ES) PRESENT	T 1 0 GROSS STOMA LEFT, HULTI
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LACRIMAL GLAND	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(MILD)
LYMPN NODES	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODES. RBC'S ONLY PRESENT IN MESENTERIC NODE.
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITMELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -ENSIGN MYPERPLASTIC NODULE(S)	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
SEMINAL VESICIF	

Appendix J	(cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INSTITUTE OF ', PATH SERV SCHER-344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAW-84	DATA REPORT GLP83009
ANIMAL HUNDER: 28/PRETEST- DATE OF DEATH: 29-JAM-86 STUDY DAY OF	28 SEX: MALE DOSE GR DEATH: 738 STUDY W	AL SACRIFICE WEIGHT: 377.00 (618)
TISSUE / MISTOPATHOLOGIC FINDINGS		O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES		(PRESERT)
PANCREAS		FOCAL(MILD) (Present)
STOMACH		NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MANNARY GLANDS	ACINAR TISSUE	NOT SPECIFIED(TRACE)
HOSE/TURBINATES	MASAL CAVITY, SINUSES,	CELLULAR INFILTRATE IS ADJACENT TO THE NASO-LACRIMAL DUCT. Not specified(trace)
EYES & OPTIC N	ERALIZATION, SCLERA	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION		MISCELLAMEOUS TISSUE Not specified (present)

•andix J (cont.): P	PATHOLOGY INDIVIDUAL ANIMAL DATA IVIDUAL ANIMAL DATA REPORT STIRY MIMBER: 61 PATORS
SPECIES: RAT/FISCHER-344	STUDY TYPE: CHRONIC/2 YR C
29/PRETEST= 29 SEX: MALE 86 STUBY DAY OF DEATH: 723	UP: 1 SACRIFICE STATUS: FOUND DEAD EK OF DEATH: 104 TERMINAL BODY WEIGHT: 4
AME	
ENLARGED (SPLENOMEGALY) ADMESION(S)	4.5CM LONG DIAPHRAGM, VENTRAL ABDOMINAL WALL
EXAMENTAL SOLVEN	
	GENERAL/SECURA PITTED SUCRECE PITTED A C ROLL
ENLARGED STALL, UNITALENTLY	Kidni, I A JUN LEFT, 25 X 15CM
LUNGS DISCOLORATION PRESENT	MOTILED WHITE AND RED MOTILED RED AND BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROLD	TISSUE IS MISSING
HEART	NOT SPECIFIED(HILD) NOT SPECIFIED(TRACE)
SDADI	
-VOLFOURARY EDERA -VASCULAR CONGESTION -ALVEOLAR HEMORRHAGE	DIFFUSE (PRESENT) DIFFUSE (PRESENT)
SPLEEN	(PRESENT)
LYMPH MODES	. THERE ARE MANY MEDPLASTIC LYMPHPCYTES IN MEDULLARY SINUSES OF
METASTAT	_

LETTERNAN ARMY INSTITUTE OF RESEARCH LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP STUDY NUMBER: SPECIES: RAIVFISCHER-344	INDIVIDUAL AND DATA REPORT GLP83009	INAL DATA PRINTED: 21-NOV-89 PAGE: 53 STILLOW TYDE: CURDULT OF ARCTHOGENIC
/PRETEST 29 SEX: MALE STUDY DAY OF DEATH: 723	SACRIFICE STATU DEATH: 104 TERMINA	433.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> OBSERVATION (SEVERITY) / SPECIAL COMMENTS	
LYMPM WODES	. NOT SPECIFIED (PRESENT)	
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -MEPATOCYTIC VACUOLIZATION	MOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(MODERATE)	
KIDMEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED (MARKED)	
PROSTATE	NOT SPECIFIED(TRACE)	•
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)	
TESTES	(PRESENT)	
PANCREAS	NOT SPECIFIED (TRACE)	
MAMMARY GLANDS	NOT SPECIFIED(TRACE)	
ADRENAL	WOT SPECIFIED (PRESENT)	
EYES & OPTIC M	NOT SPECIFIED (PRESENT)	

Appendix J (cont.): PATE	(cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	2 2
29 SEX: MALE DEATH: 723	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 433.00 (GMS)
NICROSCOPIC TI	SSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
WHOLE BODY	
-M- LARGE GRANULAR LYMPHOCYTIC LEUKEMIA	INVOLVED, IN THIS CASE, IS THE SPLEEN. THE LESION WAS NOT CODED FOR OTHER ORGANS WHICH HAD MINIMAL MORPHOLOGIC ALTERATION.
DIAPHRAGN MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	. MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

**************************************	STUDY START	STUDY TYPE: CHRO
ANIMAL NUMBER: 30-JUL-85	PRETEST* 30 SEX: MALE STUDY DAY OF DEATH: 555	- 4
1 1 1 1 1 1	<pre><< GROSS ORGAN OBSERVA KEYWORDS / PNRASES SEVERITY</pre>	
TESTES TESTES LIVER PERITOMEAL CAV. PITUITARY GLAND	ATROPNIC / SMALL, UNILATERALLY PRESENT GROWIN(S) / MASS(ES) ADMESION(S) ADMESION(S) ENLARGED MARKED	RIGHT, SOFT, 1.5 X .8CM SUBCAPSULAR, INFERIOR POLE, WHITE, .5CM DIAMETER VENTRAL ABDOMINAL WALL SMALL INTESTINE TO EACH OTHER AND LIVER AT RANDOM SITES RED BLACK, 7MM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	MICROSCOPIC TISSUE OGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
-NYDROCEPHALUS	RAIN	. NOT SPECIFIED (PRESENT)
TRACHEA	TIVE TRACKEITIS	. SUPPURATIVE TRACHEITIS IS LIMITED TO THE ANTERIOR ASPECT NEAR THE LARYNX. NOT SPECIFIED(MODERATE)
SALIVARY GLAND	CUTE	DIFFUSE(MODERATE)
-CARDIOMYOPATHY		. NOT SPECIFIED(TRACE)
LUNGS	ULMONARY ARTERIES	. NOT SPECIFIED(TRACE)
LYMPH MODESREMOSIDERIN AND/OR ER	EELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	. RBC'S ARE PRESENT IN THE MEDIASTINAL NODES NEAR THYMUS. Cervical Nodes Near Salivary Glands have reactive Hyperplasia. Not Specified (Present)
REDULLAR SINUSES -REACTIVE NYPERPLASIA	⋖	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009
30 SEX: MALE F DEATH: 555	P: 1 SACRIFICE STA K OF DEATH: 80 TERMI
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> Distribution (severity) / Special Comments
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDMEY	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	NOT SPECIFIED (MARKED)
DUODENUM	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
CECUM	TISSUE IS MISSING
RECTUM	TISSUE IS MISSING
SKIN	NOT SPECIFIED (PRESENT)
MAHMARY GLANDS	

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	
ART	60 E
30 SEX: MALE DOSE GR	
ROSCOPIC TISSUE OBSERVATIONS >> MGS DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
HAMMARY GLANDS	
NOSE/TURBINATES	
ADRENAL	
PITUITARY GLAND	
DIAPMRAGM MISCELLAMENOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	

ppendix J (cont.): F RESEARCH GP STUDY STAR	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
31 SEX: MALE DEATH: 738	FICE STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT: 414
A G B B B O B G A M O B S E R KEYLORDS / PHRASES A M SEVERI	VATIONS >>> IT GROSS FREE-TEXT COMMENTS
SM INTESTINE ADMESION(S) SM INTESTINE ADMESION(S) PRESENT PRESENT PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	DIAPHRAGM AND VENTRAL ABDOMINAL WALL SEVERAL LOOPS ZMM DIAMETER, WHITE AND RED BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
* NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	. (PRESENT)
HEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - CLEAR CELLS	MOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
KIDNEY PROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	. (PRESENT)
DUCDEMUM	NOT SPECIFIED (PRESENT)
PARCREAS	

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIM SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP63009 STUDY TYPE: CHRONIC/2 YR CARCING
31 SEX: MALE DEATH: 738	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 414.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	
MAMMARY GLANDS	. NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	THE CELLULAR INFILTRATE IS UNILATERAL AND INVOLVES THE NASO- Lacrimal duct. Not specified(MILD)
ADREMAL	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
PITUITARY GLAND	(PRESENT) Not specified (present)
EYES & OPTIC N	MILD DEGENERATIVE CHANGES NOTED IN LENS IN ONE EYE. Not specified(MILD) Not specified (Present)
EAR	SEVERE SUPPURATIVE OTITIS MEDIA PRESEMT UNILATERALLY. Not specified(marked)
ABDOMINAL CAVITY	MISCELLAMEOUS TISSUE THE ONLY GROSS OR HISTOLOGIC LESIONS CORRESPONDING TO THE "LARGE INTRA-ABDOMINAL MASS" NOTED CLINICALLY WERE ADHESIONS OF LIVER, SMALL INTESTINE, AND DIAPHRAGM.
DIAPMRAGM	MISCELLANEOUS TISSUE Not Specified (Present)

. J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	DATA REPORT GLP83009
ANIMAL MUMBER: 32/PRETEST 32 SEX: MALE DOSE G DATE OF DEATH: 26-SEP-85 STUDY DAY OF DEATH: 613 STUDY	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 88 TERMINAL BODY WEIGHT: 384.00 (GMS)
C G R G S S G R G A R G B KEYLORDS / PHRASES	•
LIVER ADMESION(S) LIVER ADMESED TO PERITONEUM PRESENT TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT EAR PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL, OMENTUM OF SMALL INTESTINE RIGHT, 1.5 X 1CM
TISSUE / MISTOPATNOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	T I SSU
HEART	MOT SPECIFIED(MILD) NOT SPECIFIED(MODERATE)
LUNGS	NOT SPECIFIED(TRACE)
LYMPN MODES	RBC'S AND REACTIVE HYPERPLASIA NOTED IN CERVICAL NODE. Not specified (present) Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD)
KIDBEY	NOT SPECIFIED(TRACE)
TESTES	NOT SPECIFIED (MARKED)

Appendix J (cont.):	:.): PATHOLOGY INDIVIDUAL ANIMAL DATA	~
•	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 ART DATE: 23-JAN-84	PRINTED: 2 PAGE: 6 RONIC/2 YR CAR
ANIMAL NUMBER: 32/PRETEST= 32 SEX: MALE DATE OF DEATH: 26-SEP-85 STUDY DAY OF DEATH: 613	MALE DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND 13 STUDY WEEK OF DEATH: 88 TERMINAL BODY WEIGHT: 384.) MOR18UND
TISSUE / MISTOPATHOLOGIC FINDINGS	T I S S U E O B S E R V A T I O N S ->- DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S 1
TESTES	NOT SPECIFIED (MODERATE)	
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)	
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)	
-DILATATION (ECTASIA) OF DUCTS AND DUCTULES	TULES NOT SPECIFIED (PRESENT)	
PITUITARY GLAND	(PRESENT)	
EAR THE FIBR ADJACENT -W- FIBROSARCOMA, SUBCUTANEOUS, EXTERNAL EAR, ADJACENT TO EAR TAG(PRESENT)		AND WAS LOCATED
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	

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	ESEARCH STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
AMINAL NUMBER: 33. Date of Death: 29-Jan-86	R: 33/PRETEST 33 SEX: MALE R: 29-JAN-86 STUDY DAY OF DEATH; 738	IFICE STATU
AL	ES A R O G	SERVATIONS >>> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT VENTRAL ABDOMINAL WALL PRESENT YELLOW/GRAY, .6CM DIAMETER PRESENT TELLOW/GRAY, .6CM DIAMETER PRESENT TEM DIAMETER, IN MESENTERY PRESENT 1CM DIAMETER, IN MESENTERY
165168	GROUTH(S) / MASS(ES) P	_
TISSUE / HISTOPATHOLOGIC FINDINGS	MICROSCOPIC 1 SS	U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSB- PARA-FOLLICULAR CELL ADENOMA	L ADENOMA	(PRESENT)
MEART	MUSCULAR ARTERIES	NOT SPECIFIED (MODERATE) MOT SPECIFIED (MILD)
LUNGS	ONARY ARTERIES	NOT SPECIFIED(TRACE)
SPLEEM		FOCAL (TRACE)
LYMPN MODES	PERPLASIA	BOTH MEDIASTIMAL AND MESENTERIC NODES HAVE GREATLY DILATED SIMUSOIDS. SECTION #22 IDENTIFIED GROSSLY AS A "MESENTERIC CYST" IS A MESENTERIC LYMPH WODE WITH GREATLY DILATED SIMUSOIDS. NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	MMATORY REACTION	NOT SPECIFIED (PRESENT)

Appendix J (cont.): F	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-64
33 SEX: MALE OF DEATH: 738	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 358.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVA DISTRIBUTION (
LIVER -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -CYSTIC DEGENERATION -BENIGH NYPERPLASIT MODULE(S) -N- PRESENCE OF METASIATIC SARCONA	IS NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL (PRESENT) MULTI-FOCAL(MILD) SECONDARY NEOPLASM FROM ORGAN
KIDMETPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	FOCAL (TRACE)
COLON	CYSTIC POLYP OF LARGE INTESTIMAL ORIGIN IS PRESENT AND IS ADHERED TO THE LIVER AT ONE POINT. THERE ARE AREAS OF MUCOSAL ULCERATION ADJACENT TO THE PROLIFERATIVE POLYPOID MASS. RETION MULTI-FOCAL(MODERATE) (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
1	

Appendix J (cont.): PATH(PATHOLOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	
33/PRETEST= 33 SEX: MALE AM-86 STUDY DAY OF DEATH: 738	SACRIFICE STATU DEATH: 106 TERMINA
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EVES & OPTIC M	NOT SPECIFIED (PRESENT)
EAR	NOT SPECIFIED (TRACE)
ABDOMINAL CAVITY NISCELLANEOUS 71SSUE	MISCELLANEOUS TISSUE
-M- SARCOMA, CELLULAR DIFFERENTIATION UNSPECIFIED	INE SANCUNA IS LIMITED TO LIVER AND DIAPHRAGM. IT IS MIGHLY AMAPLASTIC AND POORLY DIFFERENTIATED. THERE ARE NUMEROUS LARGE Multimucleated Neoplastic giant cells (present)
DIAPMRAGM	MISCELLAMEOUS TISSUE SECOMDARY MEOPLASM FROM ORGAN NOT SPECIFIED (PRESENT)

SPECIES: RAI/FISCHER-544	R C G P	START D	DATA REPORT GLP83009 Study Type: Chroni	PRINTED: 21-NOV-89 PAGE: 65 C/2 YR CARCINGGENI
ANIMAL NUMBER: 34/PRETEST= DATE OF DEATH: 01-JUL-85 STUDY DAY OF	/PRETEST 34 SEX: MALE STUDY DAY OF DEATH: 526		TUS: SACRIFICED MORT	BUND 422.00 (GMS)
ORGAN WANE	ORGAN WAME C KEYLORDS / PURASES		E R V A T 1 O N S >> VERITY GROSS FREE-TEXT COMMENTS	• • • • • • • • • • • • • • • • • • •
PERITONEAL CAV.	GROUTH(S) / HASS(ES)	PRESERT	FIRM, WHITE, 6 X 4 X 3CM, APPROXIMATELY A 10CM LENGTH THE MIDDLE SWALL INTESTINE IS ADHERED TO MASS WINDING	ENGTH OF IDING FROM
SPLEEN Liver Pituitary gland	FIBROUS ADHESION(S) Adhesion(S) Cyst(S)	PRESENT PRESENT PRESENT	UNE SIDE TO THE OTHER. ABDOMINAL WALL DIAPHRAGM THW DIAMETER	
TISSUE / NISTOPATHOLOGIC FINDINGS	CROSCOPIC	T I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
TNYROID GLANDS			NOT SPECIFIED (PRESENT)	
PARATHYROID	•		TISSUE IS MISSING	
SPLEEM			THE SARCOMA IS LIMITED TO THE SURFACE OF THE SPLENIC CAPSULE Secondary Neoplasm from Organ Abdominal Cavity Not Specified (Present)	NIC CAPSULE.
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYI			REACTIVE HYPERPLASIA AND RBC'S NOTED IN BOTH MEDIASTINAL AND MESENTERIC NODES. Not specified (present)	ASTINAL AND
-REACTIVE HYPERPLASIA		-	MOT SPECIFIED (PRESENT)	
LIVER	∶ ₹	/OR CHOLANGIOFIBROSIS N	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) SECONDARY NEOPLASH FROM ORGAN ABDOHINAL CAVITY	
PROSTATE			NOT SPECIFIED(TRACE)	

J (cont.):	
IUIE OT RESEARCH IN SERV GP -344 START DA	GLP83009 STUDY TYPE: CHRONIC/2 YR CA
34 SEX: NALE DEATH: 526	SACRIFICE STA
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	NOT SPECIFIED(MILD)
DUODENUM	SECONDARY MEOPLASM FROM ORGAN ABDOMINAL CAVITY
JEJUNUM	SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
ILEUM	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED(TRACE) SECONDARY MEOPLASM FROM ORGAN ABDOMINAL CAVITY
CECUM	NOT SPECIFIED (PRESENT)
COLON	SECONDARY MEOPLASM FROM ORGAN ABDOMINAL CAVITY
NOSE/TURBINATES	. CELLULAR INFILTRATE INVOLVES NASO-LACRINAL DUCT. Not specified(Trace)
ADRENAL	. OIFFUSE(TRACE)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)

Appendix	J (co	(cont.):	PATH	OLOGY 1	PATHOLOGY INDIVIDUAL ANIMAL DATA	L ANIMAL	DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		IUDY STAR	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-1AN-84	VIDUAL ANIMAL DATA REPO Study Number: Glp83009 Te: 23-jan-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-jan-84	STUDY	TYPE: CHRONI	PRINTED: 21-NOV-89 PAGE: 67 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL HUNGER: 34/PRETEST# DATE OF DEATH: 01-JUL-85 STUDY DAY OF	34 SEX: MALE DF DEATH: 526	MALE 526	DOSE G STUDY	DOSE GROUP: 1 STUDY WEEK OF DEA	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 76 TERMINAL BODY WEIGHT: 422.00 (GMS)	STATUS: SAC	SACRIFICE STATUS: SACRIFICED MORIBUND 76 TERMINAL BODY WEIGHT: 422.	SACRIFICE STATUS: SACRIFICED MORIBUND TH: 76 TERMINAL BODY WEIGHT: 422.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	0	-	SCE	O B S E DISTRIBU	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ONS YY	COMMENTS	
ABDOMINAL CAVITY MISCELLANEOUS TISSUE IN MOST AREAS THE TUP IT IS PRESENT IN LIVE PANCREAS AND COLON. (PRESENT)	UNSPECIFI	E0		MISCELLA IN MOST IT IS PR PANCREAS (PRESENT)	MISCELLANEOUS TISSUE IN MOST AREAS THE TUN IT IS PRESENT IN LIVE PANCREAS AND COLOM.	OR IS A WELL R, DIAPHRAGH	-DIFFERENTIAT , SPLEEN, DUC	MISCELLANEOUS TISSUE IN MOST AREAS THE TUMOR IS A WELL-DIFFERENTIATED FIBROSARCOMA. IT IS PRESENT IN LIVER, DIAPHRAGM, SPLEEN, DUODENUM, ILEUN, PANCREAS AND COLOM.
DIAPMRAGM			:	. MISCELLA SECONDAR NOT SPEC	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY NOT SPECIFIED (PRESENT)	OM ORGAN ABD	OHINAL CAVITY	

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
ARCH INDIV START DAT	DATA REPORT GLP83009
/PRETEST 35 SEX: MALE DO STUDY DAY OF DEATH: 723 ST	P: 1 SACRIFICE STATUS K OF DEATH: 104 TERMINAL
ES 6 A 22	T I O N S >> GROSS FREE-TEXT COMME
TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT TESTES ENLARGED PRESENT LIVER ADMESION(S) PRESENT LUNGS CONGESTED / RED PRESENT ETES & OPTIC N. CORNEAL OPACITY PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT	RIGHT, .3CM DIAMETER LEFT, 3 x 1.5CM SOFT, BLACK, 1.5 x 1CM DIAPHRAGM RIGHT
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES -REACTIVE HYPERPLASIA	REACTIVE HYPERPLASIA INVOLVES CERVICAL AND MESENTERIC NODES. RBC'S WERE PRESENT IN MESENTERIC NODES BUT NOT IN OTHER NODES EXAMINED. HOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
PROSTATECHRONIC PROSTATITIS	NOT SPECIFIED(MILD)

Appendix J (cont.): PATHOLOGY LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER:	INDIVIDUAL DATA REPORT GLP83009	ANIMAL DI	DATA PRINTED: 21-NOV-89 PAGE: 69
FIND START DESCRIPTION OF START DESCRIPTION OF DEATH: 723	SACRIFIC DEATH: 104		STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
\$ \$ 1 1	(E. 0	N S >> ITY) / SPECIAL COMMENT	:
PROSTATE	NOT SPECIFIED(MILD)		
COA6 GL	TISSUE IS MISSING		
SCAIMAL VESICLE	NOT SPECIFIED (PRESENT)		
TESTES	(PRESENT)		
-COMPOUND RELATED INFLAMMATORY REACTION -MUCOSAL EROSION/ULCERATION -PRESENCE OF MUCOSAL EPITHELIAL CELLS WITHIN INTESTINAL WALL AND ADJACENT FIBROUS/GRANULOMATOUS INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)		·
ILEUMNUCOSAL EROSION/ULCERATION	NOT SPECIFIED (PRESENT)		
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)		
MOSE/TURBINATES	THE CELLULAR INFILTRATE INVOLVES THE NASO-LACCRIMAL DUCT Not specified(trace)	NVOLVES THE N	ASO-LACCRIMAL DUCT.
BONE, FEMUR	TISSUE IS MISSING		
PITJITARY GLAND	(PRESENT)		

		Appendix	ם	(cont.):	<u>د</u>		PAT	HOLOG	 ≿	INDI	VIDUN	L AN	IMAI	PATHOLOGY INDIVIDUAL ANIMAL DATA		
DIV OF RES SPECIES: RAI	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	OF RESEARCH RV GP		18	S YOU	I TART	NDIVID STU DATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	MAL 1	0ATA R 3LP830	EPORT 09		STUDY	TYPE: CH	PRINTED: 21-NOV-89 PAGE: 70 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	<u>.</u>
ANIMAL NUMBER: DATE OF DEATH:	ER: 35	ANIMAL MUMBER: 35/PRETEST= Date of Death: 14-Jan-66 Study Day of	3.	35 SEX: MALE DEATH: 723	HALE 723		DOSE STUD	GROUP:	1 0F 06	S YATA:	ACR 1 F 10 104	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT	S: FOU	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT:	SACRIFICE STATUS: FOUND DEAD 104 TERMINAL BODY WEIGHT: 385.00 (GNS)	1
TISSUE / NIS	TISSUE / NISTOPATHOLOGIC FINDINGS	A M I C R O S C O OGIC FINDINGS	0	- C - C - C - C - C - C - C - C - C - C	-	S	SCE	00:	S E	R V A	T 1 0 (SEVERI	OBSERVATIONS >>	PECIAL	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	· · · · · · · · · · · · · · · · · · ·	:
EYES & OPTIC NRETINAL ATROPHY -IRIDOCYCLITIS		YES & OPTIC M	CMIL	ATERA	8	BILA	TERAL	ALL	OCCL 1S E FUSE (ALL OCCULAR LESION EYE IS ESSINTIALLY DIFFUSE (MODERATE) DIFFUSE (MILD)	ALL OCCULAR LESIONS CODED (EYE IS ESSINTIALLY NORMAL.) DIFFUSE(MODERATE)	CODED UI	NVOLVE	ONLY TH	AND/OR DEGENERATION, UNILATERAL OR BILATERAL DIFFUSE(MIDERATE) DIFFUSE(MIDERATES COMBATISE UTTALES DIFFUSE(MIDERATE) DIFFUSE(MIDERATES COMBATISE UTTALES UTT	
	A VEGENERAL 14	C CHANGES CONT			5	A K A C	_		S E	ILLED	MOI SPECIFIED (PRESENT)	<u> </u>				

Appendix LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATM SERV GP SPECIES: RAT/FISCNER-344	ESEARCH (CC	INDI RT DA	INDIVIDUAL DATA REPORT GLP83009
ANIMAL NUMBER: 36/PRETEST= DATE OF DEATH: 30-JAN-86 STUDY DAY	36 0F DE		1 SACRIFICE STATUS: FIN F DEATH: 106 TERMINAL BODY
CAND	GROSSORGAN KEYWORDS/PKRASES ADMESION(S) SUBCUTANEOUS NODULE(S) GRANULAR SURFACE GROWIN(S)/MASS(ES)	a	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT DIAPHRAGM, SMALL INTESTINE, VENTRAL ABDOMINAL WALL PRESENT SEVERAL, FIRM, WHITE, 2-3MM DIAMETER, LEFT AXILLA PRESENT LEFT, MULTIPLE VARIABLY SIZED, YELLOW/BLACK PRESENT LEFT, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	M I C R O S C O P I C FINDINGS		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSB- PARA-FOLLICULAR CELL ADEMONA MEART			(PRESENT) NOT SPECIFIED(MILD)
LIVER	TORY REACTION YPERPLASIA AND/OR CH	D/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) FOCAL (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE			NOT SPECIFIED (MARKED)
PROSTATE			NOT SPECIFIED (MODERATE) NOT SPECIFIED (MILD)
TESTESB- INTERSTITIAL CELL ADENONA	DIA		(PRESENT)
JEJUNUM			

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
ITUTE OF RESEARCH TN SERV GP R-344 STUDY STAR	DATA REPORT GLP83009 STUDY TYPE: CHRONIC
MAL WUMBER: 36/PRETEST 36 SEX: MALE COF DEATH: 30-JAN-86 STUDY DAY OF DEATH: 739	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 325.00 (GMS)
C NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
JEJUNUM	NOT SPECIFIED (PRESENT)
COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
COLOM	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	SUBCUTANEOUS MODULES OBSERVED GROSSLY IN THE AXILLA CONSIST OF HYPERPLASTIC MAMMARY TISSUE. NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS LOCATED ADJACENT TO NASO-LACRIMAL DUCTS. Not specified(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
DIAPMRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

	Appendix J (cor	(cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	ESEARCH	INDIVIDUAL ANIMAL STUDY WURBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009
DATE OF DEATH: 26-SEP-85	PRETESTS 37 S STUDY DAY OF DEAT		SACRIFICE STATUS: SACRIFICED MOR DEATH: 86 TERMINAL BODY WEIGHT:
ORGAN NAME	G W	0	T I O M S >> GROSS FREE-TEXT COMMENTS
LIVER LIVER TESTES STONACH	ADHESION(S) GROWIN(S) / MASS(ES) DISCOLORATION GROWIN(S) / MASS(ES)		DIAPHRAGH, VEHTAL ABDONINAL VALL, STONACH Firm, White, Irregular, 4 x 3.5 x 3.5cm Right, Diffusely Purple White, Firm, Irregular, 1cm Diameter, in Lumen
C M I C R O TISSUE / MISTOPATHOLOGIC FINDINGS	M I C R O S C O P C C FINDINGS	TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART			NOT SPECIFIED(MILD) Not specified(Trace)
LUMGS	MONARY ARTERIES		NOT SPECIFIED(TRACE)
SPLEEN	:		FOCAL (MILD)
LYMPH MODESRED BLOOD CEELS, HEMOSIDERIM AND/OR ERY MEDULLAR SIMUSES - REACTIVE MYPERPLASIA	IEELS, MEMOSIDERIN AND/OR ERYTHROPHA	THROPHAGOCYTOSIS WITHIN	REACTIVE HYPERPLASIA AND ROC'S ARE NOTED IN CERVICAL, MEDIASTINAL, AND MESENTERIC LYMPH NODES. NOT SPECIFIED (PRESENT)
LIVER -COMPOUND RELATED INFLAMMATORY REA -BILE DUCTULE EPITMELIAL MYPERPLAS -NEPATOCYTIC VACUOLIZATION -N- PRESENCE OF METASTATIC SARCOMA	TORY REACTION TPERPLASIA AND/O SARCOMA	R CHOLANGIOFIBROSIS	MOT SPECIFIED (PRESENT) MOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) SECONDARY MEDPLASM FROM ORGAN
KIDNEYPROGRESSIVE REMAL DISEASE	EASE		NOT SPECIFIED(TRACE)
PROSTATE			

Appendix J (cont.): PA LETTERNAN ARMY INSTITUTE OF RESEARCH	PATHOLOGY INDIVIDUAL ANIMAL DATA PRINTED: 21-NOV-89
STUDY START D	GLP55009 STUDY TYPE: CHRONI
37/PRETEST= 37 SEX: MALE 85 STUDY DAY OF DEATH: 613	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 86 TERMINAL BODY WEIGHT: 463.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
STOMACH	(PRESENT)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE IN MOST AREAS OF THE SARCOMA, NEOPLASTIC CELLS ARE POORLY DIFFERENTIATED AND ANAPLASTIC. THERE ARE NUMEROUS LARGE MULTI- NUCLAEATED TUMOR GIANT CELLS IN SOME AREAS. IN THE SUBMUCOSA OF THE STOMACH, HOWEVER, THE TUMOR IS FAIRLY WELL- DIFFERENTIATED AND TYPICAL OF A FIBROSARCOMA.
DIAPHRAGM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN NOT SPECIFIED (PRESENT)

SPECIES: AAT TAGE OF AGENCY DIV OF RES SUPP, PATE SERV GP SPECIES: RAI/FISCRER-344	STUDY STAR	STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 39/ DATE OF DEATH: 30-JAH-86	PRETEST= STUDY DAY OF	- ح
ORGAN NAME	G # O \$ S O R G A N O B	S E R V A T I O M S ->> SEVERITY GROSS FREE-TEXT COMMENTS
TESTES TESTES LIVER PITUITARY GLAND	ATROPHIC / SMALL, UNILATERALLY PGROUTH(S) / MASS(ES) ADMESION(S) ENLARGED	PRESENT RIGHT, 1.5 X 1CM PRESENT LEFT, MULTIPLE VARIABLY SIZED, YELLOW PRESENT VENTRAL ABDOMINAL WALL MILD .4CM DIAMETER, DARK RED
TISSUE / HISTOPATHOLOGIC FINDINGS	0 S C O P I C T I S	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAIM	ION, PERIVASCULAR	FOCAL (PRESENT)
HEART		
LYMPH MODES		MARKED REACTIVE HYPERPLASIA NOTED IN CERVICAL LYMPH NODES ADJACENT TO SALIVARY GLAMDS. NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AMD/ -FOCUS OF CELLULAR ALTERATION - BASOPHILI -BENIGN HYPERPLASTIC NODULE(S) -NEPATOCYTE COALESCING MICROVESICULAR (FA	-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITMELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGH MYPERPLASTIC NODULE(S) -WEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO WECROSIS AND MIMERALIZATION	ROSIS NOT SPECIFIED (PRESENT) ROSIS NOT SPECIFIED(MODERATE) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) DING TO MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	ASE	MOT SPECIFIED (MODERATE)
PROSTATECHRONIC PROSTATITIS -BENIGM MYPERPLASIA		NOT SPECIFIED (TRACE) MOT SPECIFIED (TRACE)

K J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	DATA REPORT GLP83009
ANIMAL MUMBER: 39/PRETEST= 39 SEX: MALE DOSE GF Date of Death: 30-jam-86 Study day of Death: 739 Study is	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 396.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
TORGUEPERITIS	. FOCAL (TRACE)
MANMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT TO NASO-LACRIMAL DUCT. ES, NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
ABDONINAL CAVITY	. MISCELLANEOUS TISSUE THERE WERE NO GROSS OR MICROSCOPIC FINDINGS OTHER THAN ADHESION OF THE LIVER TO THE VENTRAL BODY WALL THAT WOULD ACCOUNT FOR THE "LARGE INTRA-ABDDOMINAL MASS" NOTED CLINICALLY.

APP LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	INSTITUTE OF PATH SERV	Appendix of research iv gp	ם	Č	(cont.):	(cont.): stuny START	= 1	PATHOLOGY DIVIDUAL ANIMAL STUDY NUMBER: DATE: 23-JAN-84	PATHOLOGY INDIVIDUAL ANIMAL DATA DIVIDUAL ANIMAL DATA REPORT STUDY MUNBER: GLP63009 JATE: 23-JAN-84	DUAL ORT	ANIMAL STUDY	DA1	ROMI	PRINTED: 21- PAGE: 79 C/2 YR CARC	21-NOV-89 79 ARCINGENI	V-89
ANIMAL NUMBER: 40/PRETEST= DATE OF DEATH: 30-AUG-85 STUDY DAY OF	40/P	RETEST= STUDY DAY OF	•	40 SEX: MALE DEATH: 586	X: 11/	ונפ	•	DOSE GROUP: 1 STUDY WEEK OF	DOSE GROUP: 1 SACR STUDY WEEK OF DEATH: 84	LIFICE ST TERM	E STATUS: SACRIFICED I	CRIFICE Y WEIGH	SACRIFICE STATUS: SACRIFICED MORIBUND 84 TERMINAL BODY WEIGHT: 375.	1BUND 375.00 (GMS)	GMS)	
ORGAN MAME KEYLORDS / PARAS		G R O S S O R KEYWORDS / PHRASES			z	6	S E SEVE	- 5	T I O N S >> GROSS FREE-TEXT COMMENTS	COMMENTS	0 0 0 0 0	, , , , ,	6 8 6 6 6 9	•	• • • •	
MAXILLA Liver Testes	; 00 PE	SOFT TISSUE MASS ADHESION(S) GROUTH(S) / MASS	HASS HASS((ES)			PRESENT	LEFT, DIAPHR MULTIP	LEFT, 2 X 1 X .7CM, FILLED WITH YELLOW/WHITE CHEEZY MATERIAL Diaphragm, Ventral Abdominal Wall, intestines Multiple, White, Subcapsular	TCM, FILL TAL ABDOM SUBCAPS	ED WITH INAL WALI	YELLOW/ L, INTE	WHITE CHE STINES	EZY M	ATER I A	ب
TISSUE / MISTOPATHOLOGIC FINDING	A MISTOPATHOLOGIC FINDINGS	٠, ۵	0 J S) I d		-	S S U E	0 8 S	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	T I ON S (SEVERITY)	/ SPECIAL COMMENTS	ECIAL COMMENTS	SLA			
THYROID GLANDS	LAR CELL NYPI	ERPLASIA ("		כפור' רופאו כפרו)	LIGHT	IGHT CELL)			FOCAL (TRACE)							
HEART	HY TROPHY OF MUS	SCULAR ARTE	RIES	:	•			NOT SI	SPECIFIED (MILD) SPECIFIED (TRACE)	(LD)						•
SPLEEN	ERPLASIA OF	THE SPLENIC	. CO.	Puscr	ES:				NOT SPECIFIED(HILD)	(97						
LIVER	UND RELATED INFLAMMATORY REACTION DUCTULE EPITMELIAL MYPERPLASIA AND/OR CHOLANGIOFIBR ISIS	ATORY REACT	AND	/OR C	HOLAN	G10F1	D/OR CHOLANGIOFIBROSIS	NOT SI NOT SI MULTI	NOT SPECIFIED (PRES NOT SPECIFIED(MILD) MULTI-FOCAL(MILD)	(PRESENT) M1LD) LD)						
KIDNEYPROGRESSIVE REMAL DISEASE	RENAL DISEASI			:				-	NOT SPECIFIED(TRACE)	ACE)						
PROSTATE	PROSTATITIS YPERPLASIA		:					MOT TOM	SPECIFIED(TRACE) SPECIFIED(MILD)	ACE)						
SEMINAL VESICLE -GENERALIZED A	EMINAL VESICLE	•		:					NOT SPECIFIED (PRESENT)	RESENT)						

Appendix J (cont.): LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP	INDIVIDUAL AN DATA REPORT GLP83009
40 SE	SIDDI SIRKI DATE: 23-JAM-64 X: MALE DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND : 586 STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 375.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EDIDIDYNIS	TISSUE IS MISSING
TESTES	(PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED (PRESENT)
SKIM	MASS NEAR THE LEFT MAXILLARY AREA IS AN EPIDERMAL INCLUSION CYST. NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	TISSUE IS MISSING
DOME, STERNUM	NOT SPECIFIED (PRESENT)
BOME VERT	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE

A PRINTED: 21-MOV-89	PAGE: 81 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	ANIMAL NUMBER: 40/PRETEST= 40 SEX: MALE DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND DATE OF DEATH: 30-AUG-85 STUDY DAY OF DEATH: 586 STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 375.00 (GMS)	NTS	
DAT	TYPE:	RIFIC	COMME	
PATHOLOGY INDIVIDUAL ANIMAL DATA DIVIDUAL ANIMAL DATA REPORT	STUDY	TATUS: SAC	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
UAL		FICE ST	DISTRIBUTION (SEVERITY) / SPE	SUE
IVID	3009	SACRI 8 84	A T I	MISCELLANEOUS TISSUE
IND L DATA	: GLP8	DEATH	E R V	LLANEO
PATHOLOGY INDIVIDU	STUDY START DATE: 23-JAN-64	DOSE GROUP: 1 Study week of Dea	0 8 S DISTR	MOT CAPTURED (DARKER)
ATEON VIDUAL	STUDY I	OSE GR	ш	
ZA (MI	RT DA	Š	2 %	
:: ::	DY STA	MALE B6		•
J (cont.):	STU	40 SEX: MALE DEATH: 586	5	:
b		40 OF DE/	0	
dix		T DAY	ິ ທຸ	PEACTI
Appendix LETTERNAN ARNY INSTITUTE OF RESEARCH	a. G	ANIMAL NUMBER: 40/PRETEST= 40 SEX: MAI Date of Death: 30-aug-85 study day of Death: 586	TISSUE / MISTOPATHOLOGIC FINDINGS	DIAPMRAGM
≱ l	SERV 344	40/P	61C F1	FLAMMA
TITSHI	DIV OF RES SUPP, PATH SERV GP Species: Rat/fischer-344	30-AUG	ATHOLO	TED 1M
ARMY	IV OF RES SUPP, PATI PECIES: RAT/FISCHER	ANIMAL NUMBER: DATE OF DEATH: 30	11ST0P	RELA
ERMAN	OF RES IES: R	AL KUK OF DE	UE / H	HRAGH
LETT	SPEC	ANIM. DATE	11551	DIAP.

	Appendix J	(cont.):	PATHOLOGY	INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	MSTITUTE OF RESEARCH PATH SERV GP ICHER-344	STUDY START	INDIVIDUAL ANIMAL STUDY WUMBER: STUDY START DATE: 23-JAN-84	NDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 41, DATE OF DEATH: 19-MAY-85	ANIMAL NUMBER: 41/PRETEST= DATE OF DEATH: 19-MAY-85 STUDY DAY OF	41 SEX: MALE DEATH: 483	DOSE GROUP: 1 SACI	SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 69 TERMINAL BODY WEIGHT: 341.00 (GMS)
ORGAN WANE	ORGAN MANE KEYWORDS / PHRASE	ORGAN OB	S E R V A T 1 O N S SEVERITY GROSS FREE	- TEXT COMMENTS
LIVER DIAPHRAGH KIDHFY	GROUTH(S) / MASS(GROUTH(S)/MASS(ES) HERDRANAGE	ES)	ı	FIRM, WHITE, MULTILOBULATED, 4CM DIAMETER MULTIPLE, FIRM, WHITE, .2CM DIAMETER AROUND CAPSULE OF MEDIAL/ANTERIOR PORTION OF RIGHT KIDNEY
PERITONEAL CAV. PLEURAL CAVITY	FLUID-FILLED			
** TISSUE / WISTOPATHOLOG	M I C R O S C	0 P I C T I S	SUE OBS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LUNGS	UNGS		NOT SPI	NOT SPECIFIED(TRACE)
SPLEEN	PLEEN		NOT SPI	NOT SPECIFIED (PRESENT)
LYMPH MODES	PERPLASIA		:	REACTIVE HYPERPLASIA INVOLVES THE MESENTERIC LYMPH NODE. Not specified (present)
LIVER	-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -N- PRESENCE OF METASTATIC SARCOMA	ID/OR CHOLANGIOFIB		NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) SECONDARY MEOPLASM FROM ORGAN
KIDNEYPROGRESSIVE REMAL DISEASE	SSIVE RENAL DISEASE		IAS TON	NOT SPECIFIED(TRACE)
TESTES	ESTES			MULTI-FOCAL(MILD)
MAMMARY GLANDS -NYPERPLASIA AN- -DILATATION (EC	AMMARY GLANDS	ACIMAR TISSUE	NON	SPECIFIED(MILD) SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
ANIMAL NUMBER: 41/PRETEST= 41 SEX: MALE DOSE GR DATE OF DEATH: 19-MAY-85 STUDY DAY OF DEATH: 483 STUDY L	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 69 TERMINAL BODY WEIGHT: 341.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EYES & OPTIC N TISSUE IS MISSING EXTENSIVE ARTIFAC	TISSUE IS MISSING EXTENSIVE ARTIFACTS MAKE EVALUATION OF EYES IMPOSSIBLE.
MEDIASTINUM MISCELLANEOUS TISSUE -N- PRESENCE OF METASTATIC SARCOMA	MISCELLANEOUS TISSUE Secondary Neoplasm from Organ
ABDOMINAL CAVITY	A SARCOMA IS PRESENT IN SEVERAL AREAS OF THE ABDOMINAL CAVITY AND ITS HISTOLOGIC APPEARANCE AND DIFFERENTIATION VARIES FROM ONE AREA TO ANOTHER. IN SOME AREAS IT RESEMBLES FIBROSARCOMA AND MASSON'S TRICHROME STAIN CONFIRMED THE PRESENCE OF COLLAGEN. ELSEWHERE IT RESEMBLES RHABDOMYOSARCOMA, BUT SECTIONS STAINED WITH PHOSPHOTUNGSTIC ACID-HEMATOXYLIN FAILED TO DEMONSTRATE CROSS STRIATIONS IN TUMOR CELLS. IN ANOTHER AREA, THE TUMOR IS HIGHLY VASCULARIZED, RESEMBLING HEMANGIOSARCOMA (SECTION #22).
DIAPHRAGM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN

Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
OF RESEARCH RV GP STUDY STAR	MAL DATA REPORT PAGE 1-84 STUDY TYPE: CHRONIC/2 YR
ANIMAL NUMBER: 42/PRETEST= 42 SEX: MALE Date of Death: 03-Jan-86 Study day of Death: 712	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 308.00 (GMS)
ORGAN MANE CA G R O S S O R G A N O B	<
Z	MODERATE 5.5 X 2 X 2CM PRESENT DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES PRESENT
LIVER GRANULAR SURFACE KIDNEY DISCOLORATION KIDNEY GRANULAR SURFACE	PRESENT PRESENT GRAY/BROWN PRESENT PITTED
ARY GLAND	
C M I C R O S C O P I C T I S TISSUE / MISTOPATHOLOGIC FINDINGS	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
LUNGS	
SPLEENFIBROSIS CAPSULAR -FIBROSIS CAPSULAR LYMPHOCYTE LEUKEMIA, METASTATIC	
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SIMISES	THE REACTIVE HYPERPLASIA AND RBC'S IN MEDULLARY SINUSES WERE FOUND IN CERVICAL LYMPH NODES ONLY.
- REACTIVE MYPERPLASIA	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) ROSIS NOT SPECIFIED(NILD)

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
INDIVIDU Study Start Date:	DATA REPORT GLP83009
/PRETEST= 42 SEX: MALE STUDY DAY OF DEATH: 712	SAC DEATH: 10
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
- FOCUS OF CELLULAR ALTERATION - BASOPHILIC - NEPATOCYTIC VACUOLIZATION - N- LARGE GRAHULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(TRACE) DIFFUSE(MODERATE) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
TESTES	MOT SPECIFIED(MILD)
DUOD ENUM	GROSS DESCRIPTION INDICATES ADHESION OF LIVER TO SMALL INTESTINE. HISTOLOGICAL EVEDENCE OF SMALL INTESTINAL ADHESION WAS NOT DEMONSTRATED ON ORIGINAL SECTIONS SUBMITTED OR ON FRE-TRIM. THERE IS AMPLE DEMONSTRATION OF COMPOUND-RELATED INFLAMMATORY REACTION ON THE CAPSULE OF THE LIVER.
MOSE/TURBINATES	INFILTRATE ADJACENT NASO-LACRIMAL DUCT. Not specified(Mild)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	DIFFUSE(MILD) Not specified (present)
WHOLE BODY	(PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE	IISCELLAMEOUS TISSUE

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
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Appendix

PRINTED: 21-NOV-89 PAGE: 86 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 308.00 (GMS)	/ SPECIAL COMMENTS
INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84	DOSE GROUP: 1 SACRIFICE ST STUDY WEEK OF DEATH: 102 TERM	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
INDIVIDUAL ANIMAL STUDY START DATE: 23-JAN-84	42 SEX: MALE DOSE DEATH: 712 STUDY	P.C. T.SSUE
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 42/PRETEST 42 SEX: MALE BOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND DATE OF DEATH: 03-JAN-86 STUDY DAY OF DEATH: 712 STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 308.00 (GMS)	TISSUE / MISTOPATHOLOGIC FINDINGS

DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESENT)

(cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
43 SEX: MALE DEATH: 733	SACRIFICE STATUS IF DEATH: 105 TERMINAL
2 V 2 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V	T I O M
IC K. CAV.	NT RED NT 36ML, RED ED NT 1NVOLVES SEVERAL LOOPS OF SMALL INTESTINE ATE 5 x 1 x 1CM NT THREE AREAS, FOCAL, FIRM, WHITE, RAISED, .23CM DIAMETER NT THREE AREAS, HOLTIPLE VARIABLY SIZED, DARK RED/WHITE
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ESOPNAGUS	DIFFUSE(MARKED) DIFFUSE ATROPHY OF ACINAR TISSUE IS PRESENT IN PAROTID GLAND. DIFFUSE(MILD)
MEARTCARDIOMYOPATHY -CARDIOMYOPATHY -MEDIAL MYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	MOT SPECIFIED(TRACE) MULTI-FOCAL(MILD)
SPLEEN	ON SPECIFIED (MILD) (PRESENT) NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009 ST
	1 S OF DEATH:
PIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LYMPN NODESRED BLOOD CEELS, NEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDILLARY SIMISES	REACTIVE HYPERPLASIA AND RBC'S NOTED IN MEDIASTINAL NODE ADJACENT TO THE THYMUS. LGLL NOTED IN MESENTERIC NODE.
-N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -REACTIVE MYPERPLASIA	(PRESENT) NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) SECONDARY NEOPLASM FROM ORGAN
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
EDIDIDYMIS	SECONDARY MEOPLASM FROM ORGAN
TESTESB- INTERSTITIAL CELL ADENOMA	(PRESERT)
PANCREAS	DIFFUSE(TRACE) (Present)

Appendix J (cont.): PATH LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	PATROLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009
	STUDY TYPE: CHRONIC/2 YR C
43 S DEAT	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: 359.00 (GMS)
S 1 1 2 2 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2	U E O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
CECUM	METASTATIC SARCOMA PRESENT IN MESENTARY ADJACENT TO CECUM. THIS LESION IS CODED UNDER "ABDOMINAL CAVITY"
STOMACH	 Multi-focal (present) Diffuse (present)
SCIATIC MERVE	TISSUE IS MISSING
TONGUE	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT. Not specified(trace)
PITUITARY GLAND	. TISSUE IS MISSING
EYES & OPTIC W	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
WHOLE BODY	LESIONS OF LGLL ARE VERY SUBTLE IN THIS CASE. A FEW NEOPLASTIC Lymphocytes are present in the spleen and in Hepatic Sinusoids. (present)

Appendix J	(cont.):	PATHOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	TA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIM SERV GP SPECIES: RAT/FISCHER-344	STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84		PRINTED: 21-NOV-89 PAGE: 90 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 43/PRETEST 43 DATE OF DEATH: 24-JAM-86 STUDY DAY OF DEA	43 SEX: MALE DEATH: 733	DOSE GROUP: 1 SACRIFIC STUDY WEEK OF DEATH: 105	SACRIFICE STATUS: SACRIFICED MORIBUND EATH: 105 TERMINAL BODY WEIGHT: 359.	ED MORÍBUND HT: 359.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	7 T S S C E		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ENTS
MEDIASTINUM		MISCELLANEOUS INFLAMMATION DIFFUSE(MILD)	MISCELLANEOUS TISSUE INFLAMMATION INVOLVES BROWN FAT SURROUNDING THYMUS. DIFFUSE(MILD)	NDING THYMUS.
ABDOMINAL CAVITY		THERE IS NO LARGE TUI THERE IS NO LARGE TUI SARCOMA ARE PRESENT LESIONS THERE IS INF	MISCELLANEOUS TISSUE THERE IS NO LARGE TUMOR MASS IN THIS CASE YET SMALL MODULES OF SARCOMA ARE PRESENT IN SEVERAL LOCATIONS, IN MANY OF THESE LESIONS THERE IS INFILTRATION OF INFLAMMATORY CELLS INTO THE MEOPLASTIC TISSUE, TUMOR DIFFERENTIATION IS PRIMARLY THAT OF	ASE YET SMALL MODULES OF NS. IN MANY OF THESE MMATORY CELLS INTO THE ON IS PRIMARILY THAT OF
-M- SARCOMA, CELLULAR DIFFERENTIATION UNSPECIFIED	CIFIED	OSTEOID. (PRESENT)	ACOURT. IN SEVERAL AREAS INERE I	S MATERIAL RESEMBLING
-COMPOUND RELATED INFLAMMATORY REACTION		MISCELLANEOUS TISSUE NOT SPECIFIED (PRESEI	MISCELLANEOUS TISSUE Not Specified (Present)	

Appendix J (cont.): PATHOLOGY	MOGY INDIVIDUAL ANIMAL DATA
OF RESEARCH RV GP	GLP83009 STUDY TYPE: CHRON
45 SEX: MALE F DEATH: 739	1 SACRIFICE STATUS: FINAL SACRIFICE OF DEATH: 106 TERMINAL BODY WEIGHT: 356
ORGAN NAME CEYWORDS / PHRASES SEVERITY SEVERITY CENTRES GROUTH(S) / MASS(ES) PRESENT LIVER ADMENIA(S) / MASS(ES) PRESENT OUGDENUM GROUTH(S) / MASS(ES) PRESENT	GROSS FREE-TEXT COMMENTS GROSS FREE-TEXT COMMENTS BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK DIAPHRAGM, STOMACH, INTESTINE, AND VENTRAL ABDOMINAL WALL SCH DIAMETER, FIRM, WHITE, ATTACHED TO SEROSA
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATION (SEVERITY) / SPECIAL COMMENTS
HEART	. NOT SPECIFIED (MILD)
LUMGSFOCAL MYPERPLASTIC PROLIFERATION OF TYPE 2 ALVEOLAR EPITHELIAL CELLS WITH OR WITHOUT INFLAMMATORY CELL INFILTRATION	NOT SPECIFIED(MILD)
LYMPH MODES	RBC'S AND PIGNENT NOTED IN MEDIASTINAL NODES ONLY. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE)
KIDNEYprogressive Remai Disease	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	

J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 STUDY START DATE: 23-JAM-64	45 SEX: MALE DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE T OF DEATH: 739 STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 356.00 (GMS)	PIC TISSUE OBSERVION DISTRIBUTION	(PRESENT)	SECONDARY NEOPLASM FROM ORGAN	NOT SPECIFIED(TRACE)		(PRESENT)	THE SARCOMA IS A SMALL LESION RESTRICTED TO THE WALL OF THE DOUDDENUM (SECTION # 12). IT IS A FAIRLY DIFFERENTIATED FIBROSARCOMA.	10N NOT SPECIFIED (PRESENT)
Appendix	LETTERIAM ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	45/	TISSUE / MISTOPATHOLOGIC FINDINGS	TESTES	DUODENUM	PANCREAS	STOMACH	PITUITARY GLAND	ABDOMINAL CAVITY	DIAPWRAGM

LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH BIY OF RES SUPP, PATN SERV GP SPECIES: RAT/FISCHER-344	STUDY	INDIVIDUAL ANIMAL STUDY NUMBER: START DATE: 23-JAN-84	DATA REPOR GLP83009	STUDY TYPE: CHRONI	PRINTED: 21-NOV-89 PAGE: 94 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 46, DATE OF DEATH: 05-JUN-85	46/PRETEST= -JUN-85 STUDY DAY OF		DOSE GROUP: 1 STUDY WEEK OF	SACRI DEATH: 72	SACRIFICE STATUS: SACRIFICED MORIBUND 72 TERMINAL BODY WEIGHT: 372.00 (GMS)	18UND 372.00 (GNS)
ORGAN NAME	ORGAN MANE C KEYLORDS / PHRASE	ORGAN OB	< _	T 1 0 GROSS	· · · · · · · · · · · · · · · · · · ·	
LIVER	ADAESICA(S) FIBROUS ADAESICA(ON(S)	PRESENT PRESENT	VENTRAL ABDONINAL WALL LEFT KIDNEY		
TISSUE / MISTOPATHOLOGIC FINDING	. 0 %	C 0 P I C T I S	S C E	OBSERVATIONS	/ SPECIAL COMMENTS	
NEART	EARTCARDIONYOPATNY -CARDIONYOPATNY -MEDIAL NYPERTROPNY OF MUSCULAR ARTERIES	8 W		NOT SPECIFIED(MILD) Not specified(Trace)		
SPLEEN	PLEEN		:	NOT SPECIFIED (TRACE)		
			_	REACTIVE HYPERPLASIA IS IN CERVICAL NODE. RBC'S AND HEMOSIDERIN PRESENT IN MEDIASTIMAL	MAL	
-RED BLOOD CEELS, HEM Medullary Simuses -Reactive Hyperplasia	CEELS, NEMOSIDERIN AND/OR ERY Sinuses IYPERPLASIA	ERYTHROPHAGOCYTOSIS WITHIN		NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)		
LIVER	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND -MEPATOCYTIC VACUOLIZATION	ON AND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)		
KIDNEY	SSIVE REWAL DISEASE IS, CAPSULE			NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)		
PROSTATE	YPERPLASIA			NOT SPECIFIED(TRACE)		

J (cont.):	Pathology individual animal data
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STORY START DATE: 23-JAN-84	
46/PRETEST= 46 SEX: MALE 05-JUN-85 STUOY DAY OF DEATH: 500	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 72 TERMINAL BODY WEIGHT: 372.00 (GMS)
M C R O S C FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	
PANCREAS	FOCAL(MILD)
ADREMAL	DIFFUSE(MILD)

DIV OF RES SUPP, PATE SERV GP SPECIES: RAI/FISCEER-344	INY INSTITUTE, UPP, PATH	LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAI/FISCHER-344	OF RESEARCH	STUDY ST	STUE	Y STA	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	NUMBER:		DATA REPORT GLP83009		STUDY	TYPE: C	PR.	INTED: PAGE: 2 YR C	PRINTED: 21-NOV-89 PAGE: 96 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 47/PRETEST** DATE OF DEATH: 30-JAM-86 STUDY DAY OF	R: 30-JAK	47/PRETEST= -86 STUDY	ETEST= STUDY DAY O		47 SEX: MALE DEATH: 739	IALE 19	47 SEX: MALE DOSE GROUP: 1 SACRIF DEATH: 739 STUDY WEEK OF DEATH: 106	DOSE GROUP: 1 SACRI STUDY WEEK OF DEATH: 106	DEATH:	SACRIF 106	ICE STAT	US: FI	SACRIFICE STATUS: FINAL SACRIFICE 106 TERNINAL BODY WEIGHT:	STATUS: FINAL SACRIFICE ERNINAL BODY VEIGHT: 418.00 (GHS)	418.00 (GNS)	GHS)
ORGAN MANE KEYUORDS / PHRAS	•	<pre><< G R O S S KEYWORDS /</pre>	G R O S S C KEYWORDS / PHRAS		Z C Z Z	68		T 1 GROS	FREE	T 1 O N S >> GROSS FREE-TEXT COMMENTS	ONS >> SFREE-TEXT COMMENTS		• • • • • •	•	6 8 8 4 1 1 2 8	• • • • • • • • • • • • • • • • • • •
TESTES SPEER SPEER LIVER LIVER PITUITARY GLAND CECUM SM 187ESTIME	OW	GRANULAR SURF GROATH(S) / M GROATH(S) / M DISCOLORATION ADMESION(S) ADMESION(S)	GRANULAS SURFACE GRANULAS / MASS GROVIN(S) / MASS ADMESION(S) DISCOLORATION ADMESION(S) ADMESION(S)					BILATI MULTI DIAPMI FOCAL LEFT SEVER	BILATERAL, MUL MULTI-FOCAL, M DIAPHRAGM, VEN FOCAL, 2CM DI LEFT LATERAL A SEVERAL LOOPS ABDOMINAL WALL	BILATERAL, MULTIPLE VARI MULTI-FOCAL, WHITE, .2CM DIAPHRAGM, VENTRAL ABDOM FOCAL, .2CM DIAMETER, BL LEFT LATERAL ABDOMINAL W SEVERAL LOOPS ADHERED TO	BILATERAL, MULTIPLE VARIABLY SIZED, MULTI-FOCAL, WHITE, .2CM DIANETER DIAPHRAGM, VENTRAL ABDOMINAL WALL, I FOCAL, .2CM DIANETER, BLACK LEFT LATERAL ABDOMINAL WALL SEVERAL LOOPS ADHERED TOGETHER AND R	LY SIZI IAMETEI AL WALI K K L IMER AI	ED, YELLOW T, INTESTI ID RIGHT L	BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW MULTI-FOCAL, WHITE, .2CM DIAMETER DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES, STOMACH FOCAL, .2CM DIAMETER, BLACK LEFT LATERAL ABDOMINAL WALL SEVERAL LOOPS ADHERED TOGETHER AND RIGHT LATERAL ABDOMINAL WALL	STOMAC L	3
C N I C R C N I C R C N I C R C N I C R C N I C R C N I C R C N I R C N I N I N I N I N I N I N I N I N I N	TOPATHOLO	AC M I C R.		0 6	5		SCE	0 8 S	E R V A	DISTRIBUTION (SEVERITY	N 8 8 8 8 11 Y) /	SPECIAL	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S >> ITY) / SPECIAL COMMENTS		
THYROID GLANDS	10S								ECIFIE	NOT SPECIFIED (PRESENT)	SENT)					•
HEART	ATHY		•				•		EC1 F1E	NOT SPECIFIED(MILD)						
LYMPH MODESREMOSIDERIM AND/OR ER	CEELS, EE	MOS IDER IN	AND/OR (OPHAGG		YTHROPHAGOCYTOSIS WITHIN		NE HYPREC'S	REACTIVE HYPERPLASIA AN Node. RBC'S And Pigment Not Specified (Present)	IA AND D Shent ar Sent)	1LATED E PRESI	SINUSOI ENT IN M	REACTIVE HYPERPLASIA AND DILATED SINUSOIDS NOTED IN CERVICAL Node. RBC's and Pigment are present in mediastinal mode. Not specified (present)	D IN C	ERVICAL DE.
MEDULLAKI SINUSES -REACTIVE HYPERPLASIA -DILATED AND/OR CYSTIC MEDULLARY SINUSE	TYPERPLASI D/OR CYST	A IC MEDULLA	IRY SINUS	S ES				NOT SP	SPECIFIED SPECIFIED	D (PRESENT) D (PRESENT)	SENT)					
-COMPOUND RELATED INFLAMMATORY REACTION -SILC DUCTULE EPITHELIAL HYPERPLASIA AN -MEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHI -BENIGH HYPERPLASTIC MODULE(S) -FOCUS OF CELLULAR ALTERATION - EOSINOP	ELULAR A	FLAMMATORY LIAL MYPER LTERATION MODULE(S)	REACTION RPLASIA AND/OR CHOLAN - BASOPHILIC - COSINOPHILIC CELLS		CROLL	ING 10F	ID/OR CHOLANGIOFIBROSIS LLIC	NOT NOT FOCA	NOT SPECIFIED (PR NOT SPECIFIED(MOD MULTI-FOCAL(MILD) FOCAL(TRACE) NOT SPECIFIED(TRA FOCAL(TRACE)	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) MULTI-FOCAL(MILD) FOCAL(TRACE) NOT SPECIFIED (TRACE)	SENT)					

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	
47 SEX: MALE DEATH: 739	SACRIFICE COF DEATH: 106 T
TISSUE / MISTOPATNOLOGIC FINDINGS	B S E R V A T 1 O M S >> STRIBUTION (SEVERITY) / SPECIAL
LIVER	MULTI-FOCAL(TRACE)
KIDMEY	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
ILEUM	NOT SPECIFIED (PRESENT)
CECUM	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD)
MOSE/TURBINATES	. CELLULAR INFILTRATE IS BILATERAL AND INVOLVES NASO-LACRIMAL Ducts. Not specified(M1LD)
ADREMALLIPIDOSIS	MOT SPECIFIED(TRACE)
EYES & OPTIC N	

ď¥	Appendix	,	COD	(cont.):		PAT	HOLO!	XS	IMI	VID	UNI	ANI	CAL	PATHOLOGY INDIVIDUAL ANIMAL DATA				
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: CAT/FISCHEN-344	RESEARCE		STL	IDY ST	ART I	STUI STUI	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-64	IMAL BER: 1-84	DATA 9 GLP830	REPORT	_	S	UDY T	PRINTED: 21-NOV-89 PAGE: 98 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINI P/ DNIC/2	INTED: 21- PAGE: 98 2 YR CARCI	PRINTED: 21-NOV-89 PAGE: 98 C/2 YR CARCINGENIC	-89 :N1C
ANIMAL NUMBER: 47/PRETESTS 47 SEX: MALE DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE OF DEATH: 30-JAM-86 STUDY DAY OF DEATH: 106 TERMINAL BODY WEIGHT: 418.00 (GMS)	TEST. STUDY DAY	47 F DEA	47 SEX: MALE DEATH: 739	MALE 39	•	DOSE STUD	DOSE GROUP: 1 STUDY WEEK OF DEATI		EATE	3ACR 11	ICE S	TATUS: HINAL	FINA	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 418.00 (GMS)	CE 418.	90	9	•
TISSUE / MISTOPATHOLOGIC FINDINGS	COLC FINDINGS	0	S	0710 11550	S		0 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	OBSERVATIONS >>	(SEVE	SMO	/ SPE	CIAL	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS		•		:
EYES & OPTIC N	AND/OR HIN ANGES COMPA	ERAL! TIBLE	ZATIC	ERALIZATION, SCLERA TIBLE WITH CATARACT	LERA			SPE	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	CPRE	SENT)							
DIAPHRAGH MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	DRY REACTIO							SCELLI	MISCELLANEOUS TISSUE Not Specified (Present)	TISS	UE SENT)							

	Appendix	ا	(cont.):	··	PATHOLOGY		INDIVIDUAL		ANIMAL DATA	DATA			
LETTERMAN ARNY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUDYS	TAR	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	VIDUAL ANIMAL Study Number: Te: 23-jan-84	DATA REPORT GLP83009		STUDY I	YPE: CHR	PRINTED: 21-NOV-89 PAGE: 99 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 99 C/2 YR CARCINGGENI	NOV-89
ANIMAL NUMBER: 48/	ANIMAL MUMBER: 48/PRETEST= Date of Death: 30-jan-86 Study Day of	,	48 SEX: MALE DEATH: 739	HALE 39	DOSE GROUP: 1 STUDY WEEK OF	OUP: 1 EEK OF D	DOSE GROUP: 1 SACRIFISTUDY WEEK OF DEATH: 106		STATUS: FINAL SACRIFICE RMINAL BODY WEIGHT: 3	L SACRIF	. H	394.00 (GMS)	
ORGAN WAME	KEYWORDS / PHRASES		Z	5	S E R V A SEVERITY	-5:	T I O N S YY GROSS FREE-TEXT COMMENTS	RACENTS					
PANCREAS SM LATESTIME LYMPM MODES LIVER TESTES	GROWTH(S) / MASS(S) GROWTH(S)/MASS(S) ENLARGED ADHESION(S) GROWTH(S) / MASS(1ASS(ES) 5S(S) 1ASS(ES)	ES)		PRESENT PRESENT PRESENT PRESENT PRESENT	PEDUNCU GRAY, . DIAPHRA BILATER	.2CM DIAMETER, FOCAL, WHITE PEDUNCULATED, DARK, INTRALUMINAL, .5CM DIAMETER GRAY, .7CM DIAMETER, MESENTERIC DIAPHRAGM, VENTRAL ABDOMINAL WALL, SMALL INTESTIP BILATERAL, MULTIPLE VARIABLY SIZED, WHITE/YELLOW	AL, WHITI , INTRALI R, MESENI ABDOMINA E VARIABL	MINAL, FRIC IL WALL, Y SIZED,	SMALL I	SCH DIAMETER SMALL INTESTINE , WHITE/YELLOW		
TISSUE / MISTOPATHOLOGIC FINDINGS	: 0	S C O P	3 1	S 1 L	SUE	O B S E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ONS X	N S >> ITY) / SPECIAL COMMENTS	COMMENTS			
TRACHEA	TRACHEITIS		•	•		FOCAL (TRACE)	RACE)						
PARATHYROID						TISSUE	TISSUE IS MISSING						
EXORBITAL LACRIM						TISSUE	TISSUE IS MISSING						
-CARDIONYOPATHY		_				NOT SPE	NOT SPECIFIED(MILD)	-					
LYMPH NODES				•		REACTIVE MARKED ! IS PRESI	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Marked Reactive Hyperplasia and dilated Sinusoids With Is present in mesenteric nodes. Pigment is present in	IA NOTED PERPLASIA ITERIC NO	IN CERVI AND DIL DES. PIG	CAL NOD	ODES. SINUSOIDS WIT IS PRESENT IN		FIBROSIS
-RED BLOOD CEELS,	HEMOSIDERIN AND/OR ERY	_	ROPHAGO	HROPHAGOCYTOSIS WITHIN	NIHIN	MACROPHI NOT SPE	MACROPHAGES IN MEDIASTINAL NODES NOT SPECIFIED (PRESENT)	IASTINAL SENT)	NODES.				
-REACTIVE HYPERPLASIA- -DILATED AND/OR CYSTI	HEDGLERH SINGSES -REACTIVE HYPERPLASIA -DILATED AND/OR CYSTIC MEDULLARY SINUSES	USES				NOT SPEC	SPECIFIED (PRESENT) SPECIFIED (PRESENT)	SENT)					
COMPOUND RELATED - SILE DUCTULE EPII	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	10N AND/O	R CHOLA	 NG10F1BI	ROSIS	NOT SPEC NOT SPEC MULTI-FC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)	SENT)					

SPECIES: RAT/FISCHER-544		STUDY START DATE: 23-JAN-84	STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 48/PRETEST** DATE OF DEATH: 30-JAN-86 STUDY DAY OF	48/PRETEST* 48 SEX: MALE 1-86 STUDY DAY OF DEATH: 739	UP: 1 EK OF DEATH:	FICE STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT:
<pre>< N 1 C R 0 S C 0 TISSUE / NISTOPATHOLOGIC FINDINGS</pre>	- L C - L - C	S S U E O B S E R V A T 1 O N S DISTRIBUTION (SEVERITY)	R V A T I O N S >> TION (SEVERITY) / SPECIAL COMMENTS
- WEPATOCYTIC VACUOLIZATION - CYSTIC DEGENERATION - BENIGN NYPERPLASTIC NODULE(S)	ON (ON)	MULTI-FOCAL(MILD) NOT SPECIFIED (PRESENT) FOCAL(TRACE)	D) Present)
FROGRESSIVE RENAL DISEASE		NOT SPECIFIED (TRACE)	RACE)
PROSTATE		NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE)	ODERATE) Race)
TESTES	SENONA	(PRESENT)	
ILEUM	IIC SARCOMA	SECONDARY NEOPLASM FROM NOT SPECIFIED (PRESENT)	ASM FROM ORGAN Present)
PANCREAS			PRESENT)
TONGUE		FOCAL (TRACE)	
MAMMARY GLANDS	RIROPHY OF THE ACINAR TISSUE DUCTS AND DUCTULES	NOT SPECIFIED	TRACE) (Present)
BOME, STERMUM		NOT SPECIFIED (PRESENT)	PRESENT)

-	ر د	(cont.):	••	PATH	OLOGY	INDI	VIDUAL	PATHOLOGY INDIVIDUAL ANIMAL DATA	DATA	
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PAIN SERV GP SPECIES: RAT/FISCHER-344		STUDY	START	STUP STUP DATE:	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-Jam-84	L DATA 6 : GLP830	LEPORT 109	STUDY	TYPE: CHRO	PRINTED: 21-NOV-89 PAGE: 101 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
40/PRETEST# 30-JAM-86 STUDY DAY (48 S	48 SEX: MALE OF DEATH: 739	ш	DOSE	DOSE GROUP: 1 STUDY WEEK OF	DEATH:	ACRIFICE 106 TER	TATUS: FIN	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT:	CE 394.00 (GMS)
S	0 0	0 P 1 C T 1 S S U E	<i>S</i>	<u>س</u> ت	S ST S T S	E R V A	1 1 0 N S >> (SEVERITY) / SPEC	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	COMMENTS	
BOME, FEMUR					. NOT SE	PECIFIED	NOT SPECIFIED (PRESENT)			
BOME VERT			•			ECIFIED	NOT SPECIFIED (PRESENT)			
EYES & OPTIC W	ERAL 12	ERALIZATION, SCLERA	SCLERA		NOT SP	ECIFIED	NOT SPECIFIED (PRESENT)			
ABDOMINAL CAVITY	UNSPECIFIED		•		SARCOMA SARCOMA IS POOR.	MISCELLANEOUS TISSUE Sarcoma Limited to a IS Poor. This is an Present)	TISSUE ED TO A FO IS AN EAR	CAL AREA I Ly Neoplas	MISCELLANEOUS TISSUE Sarcoma Limited to a focal area in the Ileum IS Poor. This is an Early Neoplastic Change. Present)	MISCELLANEOUS TISSUE SARCOMA LIMITED TO A FOCAL AREA IN THE ILEUM. DIFFERENTIATION IS POOR. THIS IS AN EARLY NEOPLASTIC CHANGE.
-COMPOUND RELATED INFLAMMATORY REACTION	:				MISCEL NOT SP	LANEOUS	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)			•

: J (cont.):	INDIVIDUAL ANIMAL DATA
EARCH STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: CHRO
49 SEX: MALE F DEATH: 739	UP: 1 SACRIFICE STA EK OF DEATH: 106 TERHI
C G R O S S O R G A R O B KEYLORDS / PHRASES	
TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT LIVER ADHESION(S)	BILATERAL, 2.5 X 1.5CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK VEHTRAL ABDOMINAL WALL AND DIAPHRAGM
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEARTCARDIONY€ ATMY	NOT SPECIFIED(TRACE)
LYMPH NODES	RBC'S PRESENT IN MESENTERIC NODE. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
KIDNEYPISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
TOMOUE	

Appendix	J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	AR IN	DATA REPORT GLP83009
ANIMAL NUMBER: 49/PRETEST= 49 SEX; MAI DATE OF DEATH: 30-JAN-86 STUDY DAY OF DEATH: 739	w	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 364.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	0 P 1 C T 1 S S U E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TONGUE		MULTI-FOCAL(MILD)
MAMMARY GLANDS	ACINAR TISSUE	NOT SPECIFIED(MILD)
PITUITARY GLAND		(PRESENT)
EYES & OPTIC N	ERALIZATION, SCLERA	NOT SPECIFIED (PRESENT)
- COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE	MISCELLANEOUS TISSUE

Ŏ D	DATE : PATROLOGY INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	ATROLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCHMOGENIC
50 SE F DEATH	:	SACRIFICE STATU DEATH: 94 TERMINA
R O S S O R G A N YUORDS / PHRASES	O B S E R V A SEVERITY	T I O M S >> GROSS FREE-TEXT COMMENTS
TESTES ATROPHIC / SMALL, UNILATERALLY SEMINAL VESICLE TRANSPARENT, SOFT, FLACCID LIVER ADMESION(S) LIVER	PRESENT PRESENT PRESENT PRESENT	RIGHT, 1.5 X 1.5CM DIAPHRAGM, VENTRAL ABDOMINAL WALL FIRM, WHITE, MEDIAL LOBE, 3 X 3 X 2CM, EXTENDS FROM VISCERAL
PERITONEAL CAV. ADHESION(S)	PRESENT	SURFACE THROPUGH THE DIAPHRAGM INTO THE THORACIC CAVITY. Small intestine loosely adhered to peritomeum
TISSUE / HISTOPATHOLOGIC FINDINGS	SSUE	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
-CARDIOMYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUMGS		THE METASTATIC SARCOMA IS EMBEDDED IN, AND INVADIING THE PLEURA. THERE IS NO PULMONARY PARENCHYMAL INVOLVEMENT IN LUNG SECTIONS EXAMINED. SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
THYRUS		TISSUE IS MISSING
SPLEEN		LGLL IS EARLY AND CHANGES ARE SUBTLE. HOWEVER, RED PULP AREAS Contain Wumerous Neoplastic Lymphocytes. (Present)
LYMPH NODESREMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SIMUSES	:	SEVERAL LYMPH NODES IN THE MEDIASTINUM CONTAIN NUMEROUS RBC'S. The reactive Hyperplasia is in mesenteric nodes. Not specified (present)
-REACTIVE HYPERPLASIA		NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)

I IND	INDIVIDUAL DATA REPORT GLP83009
LE DOSE GRC STUDY WE	
PIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT) Secondary Neoplasm From Organ Abdominal Cavity
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS ATROPHY	FOCAL (TRACE)
CECUM	TISSUE IS MISSING
RECTUM	TISSUE IS MISSING
COLOM	TISSUE IS MISSING
NAMMARY GLANDS	NOT SPECIFIED(TRACE) FOCAL (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS BILATERALLY. Not specified(MILD)
ADREMAL	OIFFUSE(TRACE)
EYES & OPTIC N	

Appendix J (cont.): PA1	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHR
ANIMAL NUMBER: 50/PRETEST= 50 SEX: MALE DOS DATE OF DEATH: 05-MOV-85 STUDY DAY OF DEATH: 653 STU	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 94 TERMINAL BODY WEIGHT: 440.00 (GMS)
C A O S C O P I C T I S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)
MEDIASTINUM	
ABDOMINAL CAVITY	THE SARCOMA INSOLE THE SARCOMA INVOLVES PRIMARILY THE LIVER. IT IS MIGHLY ANAPLASTIC. IN SOME AREAS IT RESEMBLES RHABDOMYOSARCOMA. IN ANOTHER AREA IT IS MYXOMATOUS. (PRESENT)

	Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ARCH STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 52/PRETEST DATE OF DEATH: 30-AUG-85 STUD	/PRETEST= 52 SEX: MAL STUDY DAY OF DEATH: 586	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 418.00 (GMS)
ORGAN NAME	ORGAN NAME KEYVORDS / PHRASES	S E R V A T I D M S >> SEVERITY GROSS FREE-TEXT COMMENTS
LUNGS		PRESENT MULTIFOCAL, PETICHIAL
TESTES	GROWTH(S) / MASS(ES)	
SPLEE	EGALY)	
LIVER LIVER KIDREY	GEGLAR MARKINGS ON ON	PRESENT FELLOW MOTTLED PRESENT VELLOW MOTTLED PRESENT DIFUSELY BROWN
PERITONEAL CAV.	ADMESION(S)	PRESENT SECTION OF SMALL INTESTINE ADHERED TO PERITONEAL WALL AND LIVER.
TISSUE / NISTOPATHOLOGIC FINDINGS	S C O P I C T I S	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROLD		TISSUE IS MISSING
CARDIONYOPATHY - HEDIAL HYPERTROPI	EART	NOT SPECIFIED (MODERATE) MOT SPECIFIED (TRACE)
LUNGS	YMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT) MULTI-FOCAL (PRESENT)
SPLEEN	PLEEN	(PRESENT)
LYMPH MODES -RED BLOOD CEELS, HEM MEDULLARY SINUSES -REACTIVE HYPERPLASIA	YMPH HODES	UITHIN NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER		

LETTERMAN ARMY INSTITUTE OF RESEARCH STORES STUDY NUMBER: DIV OF RES SUPP. PATH SERV GP	PATHOLOGY INDIVIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 CTUSY 1005 CHRONICS AND
EST 52 SEX: MALE 100Y DAY OF DEATH: 586	SACRIFICE STATU
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -EDICE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -CYSTIC DEGENERATION -MEPATOCYTIC DEGENERATIVE CHANGES (MON-NECROTIC) -MECROSIS, MEPATOCYTIC, IMDIVIDUAL CELLS -BENIGM MYPERPLASTIC MODULE(S) -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	MOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT) DIFFUSE(MILD) MULTI-FOCAL(TRACE) FOCAL(TRACE)
KIDNEY DISEASE	. NOT SPECIFIED(MILD)
PROSTATE	. NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
JEJUNUM ADHESION, SEROSA	NOT SPECIFIED (PRESENT)
-INFLAMMATION, NOT OTHERWISE SPECIFIED, PREPUTIAL GLAND	NOT SPECIFIED (PRESENT)
ADRENAL	. NOT SPECIFIED (PRESENT) (PRESENT)
WHOLE BODY	(PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE	. MISCELLANEOUS TISSUE

ANIMAL MUMBER: 53/PRETEST= DATE OF DEATH: 03-FEB-86 STUDY DA C G R O S S ORGAN MAME KEYWORDS / P	SPECIES: RAI/PISCHER-544		STUDY	ART DA		GLP83009	STUDY	PAGE: 111 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC	FRINIEUS ZI-NOV-69 PAGE: 111 C/2 YR CARCINOGENIC
)) ;		RETEST# STUDY DAY OF	53 SEX: MALE DEATH: 743	9		SACRIFICE TH: 107	SACRIFICE STATUS: FINAL SACRIFICE 107 TERMINAL BODY WEIGHT:	STATUS: FINAL SACRIFICE RMINAL BODY WEIGHT: 394.00 (GMS)	(GNS)
****	< G R O S KEYWORDS	G R O S S O R KEYWORDS / PHRASES	O R G A K	O B S E R V A SEVERITY	R V A T I O N S RITY GROSS FRE	T I O N S >> GROSS FREE-TEXT COMMENTS	STS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
KIDNEY TESTES TESTES TESTES LYMPH MODES LIVER	GRANULAR SI ENLARGED ATROPHIC / GROWIN(S) ENLARGED ADMESION(S)	URFAC SHAL MAS	E. L, UNILATERALLY S(ES)	MILD PRESENT PRESENT PRESENT PRESENT PRESENT	LEFT, 3 X 1.75CM RIGHT, 1 X .75CM LEFT, MULTIPLE V. CERVICAL, REDDISI DIAPHRAGM, VENTRI	F. F.	 ABLY SIZED, YEL -4CH DIANETER ABDOMINAL WALL	.LOW/BLACK	
TISSUE / HISTOPATHOLOGIC FINDING	< M J C R OGIC FINDING	R O S C O	0	ISSUE	O B S E R	0 8 S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> () / SPECIAL COMMENT	COMMENTS	
THYROID GLANDS					NOT SPECI	NOT SPECIFIED (PRESENT)	2		
HEART					THE FOCAL DURING TIS PROBABLY A	THE FOCAL AREA OF DISCO DURING TISSUE TRIMMING PROBABLY A MANIFESTATIO NOT SPECIFIED(MODERATE)	COLORATION NO 1 IS AN AREAS ON OF ADVANC	THE FOCAL AREA OF DISCOLORATION NOTED IN THE RIGHT VENTRICLE DURING TISSUE TRIMMING IS AN AREAS OF FIBROSIS. THIS IS PROBABLY A MANIFESTATION OF ADVANCED CARDIOMYOPATHY.	NTRICLE 1S
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGN HYPERPLASTIC NODULE(S) -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS	NFLAMMATORY ELIAL HYPERI ALTERATION C NODULE(S) ILTERATION	REACTION PLASIA AND BASOPHIL	HILIC CELLS	11 OF 18ROS I S	NOT SPECIFIED (PRE- NOT SPECIFIED (MODEI MULTI-FOCAL (TRACE) NOT SPECIFIED (TRACI NOT SPECIFIED (TRACI	SPECIFIED (PRESENT) SPECIFIED(MODERATE) I-FOCAL(TRACE) SPECIFIED(TRACE) SPECIFIED(TRACE) SPECIFIED(TRACE)	00		
- PROGRESSIVE RENAL DISEASE) I SEASE				NOT SPECIF	SPECIFIED (MARKED)			
PROSTATE	PROSTATITIS				. NOT SPECIF	NOT SPECIFIED(TRACE)			

Ą		ر ده	(cont.):	PAT	PATHOLOGY	INDIVIDUAL	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER 344	RESEARCH		TUDY STA	INDIVID STU IRT DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY STARI DATE: 23-JAN-84	5	STUDY T	YPE: CHRON	PRINTED: 21-NOV-89 PAGE: 112 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	V-89 Genic
ANIMAL NUMBER: 53/PRETEST= DATE OF DEATH: 03-FE8-86 STUDY	ETEST = STUDY DAY OF	53 SEX: MAI F DEATH: 743	53 SEX: MALE DEATH: 743	DOSE STUD	GROUP: 1	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	TATUS: FINA MINAL BODY	L SACRIFIC	CE 394.00 (GNS)	•
C N I C R O S C O TISSUE / HISTOPATHOLOGIC FINDINGS	I C R O S C O) I d 0	-	T I S S C E	O B S	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS		:
PROSTATE			•	•	NOT SP	NOT SPECIFIED(TRACE)				
TESTES	HC				(PRESENT)	£				
PANCREAS	V				 FOCAL(MILD) (PRESENT)	MILD)				
NOSE/TURBINATES	#FILTRATION,	NASAL C	AVITY, S	INUSES,	THE INFLAMM BILATERALLY NOT SPECIFI	THE INFLAMMATORY CELL INFILTRATE INVOLVES NASO-LACRIMAL DUCTS Bilaterally Not specified(mild)	NFILTRATE 1	NVOLVES NA	ISO-LACRIMAL DU	S .
ADREMAL	ON, VACUOLAT	ED .		q		NOT SPECIFIED(TRACE)				
PITUITARY GLAND				:	NOT SPE	NOT SPECIFIED (PRESENT)				
EYES & OPTIC N	AND/OR MINE	RALIZAT	ALIZATION, SCLERA	ERA	NOT SPE	NOT SPECIFIED (PRESENT)				
ABDOMINAL CAVITY					THERE I HLARGE BE EXPL	MISCELLANEOUS TISSUE THERE IS NO GROSS OR HISTOLOGIC LESION THAT CORRESPONDS TO THE "LARGE INTRA-ABDOMINAL MASS" NOTED CLINICALLY. THIS FINDING MAY BE EXPLAINED BY THE ADHESION OF THE LIVER TO THE VENTRAL ABDOMINAL MALL DECRIBED GROSSIY.	STOLOGIC LES 4ASS" NOTED SSION OF THE	SION THAT CLINICALL E LIVER TO	CORRESPONDS TO Y. THIS FINDING THE VENTRAL	HE

(cont.): P	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-MOV-89 STUDY WUMBER: GLP83009 TE: 23-JAN-84
54 SEX: MALE DEATH: 743	
R G A K O 8	. ~ K
EYES & OPTIC M. LENS CATARACT PRESENT LIVER ADHESION(S) PRESENT TESTES GROUTH(S) / MASS(ES) PRESENT	RIGHT Stomach, Diaphragh, Ventral Abdominal Wall Bilateral, Multiple Variably Sized, Yellow
C M I C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MODERATE)
LUNGSOF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
SPLEEN	NOT SPECIFIED(TRACE)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) HULTI-FOCAL(MILD) FOCAL (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
DUODENUM	

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
AM ARMY INSTITUTE OF RESEARCH RES SUPP, PATH SERV GP : RAI/FISCHER-344	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
54 SEX: MALE DEATH: 743	SACRIFICE STATUS: FINAL SACRIFICE DE DEATH: 107 TERMINAL BODY WEIGHT: 379.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
DUODENUM	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED(TRACE)
COLOM INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
STOMACH	FOCAL (PRESENT) (PRESENT)
**************************************	TISSUE IS MISSING
MOSE/TURBINATES	INFLAMMATORY INFILTRATE IS ADJACENT NASO-LACRIMAL DUCTS BILATERALLY. Not specified(MILD)
ADRENAL	NOT SPECIFIED (PRESENT)
FYES & OPTIC M	DEGENERATIVE CHANGES IN LENS AND RETINAL ARE LIMITED TO ONE EYE (SECTION 198) NOT SPECIFIED(MARKED) NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

SPECIES: RAT/FI	DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	STUDY STUDY T DATE: 23	DATA REPORT GLP83009
ANIMAL NUMBER: DATE OF DEATH:	55	DOSE GROUP: 1 STUDY WEEK OF	
ORGAK NAME	CC GROSS ORGAN OB	•	T I O N S >> GROSS FREE-TEXT
PERITONEAL CAV. SPLEEN SPLEEN	FLUID-FILLED EMLARGED (SPLENOMEGALY) PROMINENT FIBROUS CAPSULE FRACTURED	PRESENT MARKED MILD PRESENT	3-4ML,DARK RED 7 x 2 x 1cm IN MIDBODY OF MESENTERIC SURFACE WITH CLOTTED BLOOD IN
LIVER LIVER LIVER LESTES TESTES EYES & OPTIC N.	PROMINENT LOBULAR MARKINGS ENLARGED ADHESION(S) ATROPHIC / SMALL, UNILATERALLY GROWTH(S) / MASS(ES) ROUGH CORNEAL SURFACE ENLARGED	PRESENT MILD PRESENT PRESENT TRACE MARKED	DIAPHRAGM, VENTRAL ABDOMINAL WALL, IMTESTINES 1.5 x 1CM,RIGHT ONE, WHITE, SUBCAPSULAR, , .1CM DIAMETER, WELL DEMARCATED CENTRAL AREA 6MM DIAMETER, OARK RED
TISSUE / HISTOPATHOL	TISSUE / HISTOPATHOLOGIC FINDINGS	S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
-CARDIOMYOPATH	-CARDIONYOPATHY		NOT SPECIFIED(TRACE)
LUNGS	UNGS		(PRESENT)
SPLEEN	PLEEN		NOT SPECIFIED(MODERATE) (Present)
LYMPH NODES	YMPH NODES	•	(PRESENT)
LIVER	-COMPOUND RELATED INFLAMMATORY REACTION	•	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL DATA REPORT GLP83009
PRETEST 55 SEX: MALE STUDY DAY OF DEATH: 473	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 68 TERMINAL BODY WEIGHT: 354.00 (GMS)
C N C N C C O P 1 C T 1 S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >>> OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPE
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BEATOCYTIC VACUOLIZATION -HEFATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -NECROSIS, PERIACIMAR -N-CAOSIS, METASIALIAR LYMPHOCYTE LEUKEMIA, METASTATIC	HOT SPECIFIED(MILD) DIFFUSE(MILD) DIFFUSE(MILD) MULTI-FOCAL(MILD) (PRESENT)
KIDNEYprogressive Renal Disease	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
DUODEMUM	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
ILEUM	TISSUE IS AUTOLYTIC
STOMACH	NOT SPECIFIED (PRESENT) (PRESENT)
SKIN NOT OTHERWISE SPECIFIED, PREPUTIAL GLAND	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	

Appendix J (cont.): PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA
IND STUDY START D	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
5/PRETEST# 55 SEX: MALE 5 STUDY DAY OF DEATH: 473	IP: 1 S K OF DEATH:
TISSUE / HISTOPATHOLOGIC FINDINGS	O.B.S.E.R.V.A.T.I.O.N.S. >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED (PRESENT)
BONE, STERNUM	(PRESENT)
BONE, FEMUR -N- LARGE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT)
BONE VERT LARGE GRANULE LYMPHOCYTE LEUKENIA, METASTATIC	(PRESENT)
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N.	. BOTH EYES ARE BADLY DISTORTED BY PROCESSING ARTIFACT. ONE EYE (SECTION #19A) HAS MINERAL DEPOSITS IN THE CORNEA WHICH PROBABLY ACCOUNT FOR CHANGES NOTED GROSSLY. BOTH EYES HAVE METAPLASTIC BONE IN THE SCIENA. THESE EYES CANNOT BE EVALUATED.
-CGRNEAL MIMERALIZATION -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	CRITICALLY FOR OTHER CHANGES BECAUSE OF THE ARTIFACTS.VALUATED NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
WHOLE BODY	. (PRESENT)
- COMPOUND RELATED INFLAMMATORY REACTION	HISCELLANEOUS TISSUE HOT SPECIFIED (PRESENT)

	Appendix	J (cont.):	: PATHOLOGY		INDIVIDUAL	ANIMAL	DATA		
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	OF RESEARCH RV GP	ı	ART	VIDUAL ANIMAL D Study Number: G Te: 23-jan-84	DATA REPORT GLP83009	STUDY TY	¥ :	PRINTED: 21-NOV-89 PAGE: 118 C/2 YR CARCINGENIO	21-NOV-89 118 ARCINGENIC
AMIMAL NUMBER: 56/PRETEST= DATE Of DEATH: 26-FEB-85 STUDY DAY OF	56/PRETEST= -85 STUDY DAY OF	56 SEX: MALE F DEATH: 401		DOSE GROUP: 1 SACI	RIFIC	SACRIFICE STATUS: FOUND DEAD 58 TERMINAL BODY WEIGHT:	•	375.00 (GNS)	#S)
• • • • • • • • • • • • • • • • • • •	<pre><< GROSS ORGAN KEYLORDS / PHRASES</pre>		O B S E R V A SEVERITY		T I O N S >> GROSS FREE-TEXT CONNENTS	S	• • • • • •		
LIVER LYMPH WODES MAMMARY GLAND PERICARDIAL CAV	ADMESION(S) DISCOLORATION DISCOLORATION SIGNOD-TIMGED FILE			DIAPHRAGM, VENTI BLACK, CERVICAL BLACK PIGMENTED GREATLY DISTENDI	DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES BLACK, CERVICAL BLACK BLACK FOREST SOME CLOTTED BLOOD	MINAL WALL, CLOTTED BLO	INTESTINES		
•	HEMOTHROAX POST MORTEM AUTOL		PRESENT	4-5ML, CLOTTED	LOTTED		}		
TISSUE / MISTOPATHOLOGIC FINDINGS	M I C R O S C O FINDINGS	D 1 d 0	SSUE	O B S E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL C	ONMENTS		
THYROIL GLANDS		•		TISSUE I	TISSUE IS MISSING				
PARATHYROLD			TISSUE IS MISSING	TISSUE 1	S MISSING				
HEART		:			NOT SPECIFIED(TRACE)				
THYRUS		:			TISSUE IS AUTOLYTIC				
SPLEEK					TISSUE IS AUTOLYTIC				
LYMPH NODES					TISSUE IS AUTOLYTIC				
-COMPOUND RELATED INFLAMMATORY REACTION	HHATORY REACTION			NOT SPEC	NOT SPECIFIED (PRESENT)				
KIDNEY					TISSUE IS AUTOLYTIC				
URINARY BLADDER				TISSUE	TISSUE IS AUTOLYTIC				

Appendix	J (cont.):	PATHOLOGY	INDIVIDUAL ANIMAL DATA	•
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 119 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
NUMBER: 56/P DEATH: 26-FEB-85	56 SEX: MALE OF DEATH: 401	•	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 58 TERMINAL BODY WEIGHT:	D T: 375.00 (GMS)
: ~	1 1 3 1 4	S S U E O B S	0 B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	SIZ
PROSTATE		IUSSIT	TISSUE IS AUTOLYTIC	
15 9V05		USSIT	TISSUE IS MISSING	
DUODENUM			TISSUE IS AUTOLYTIC	
JEJONUM		TISSUE IS	IS AUTOLYTIC	
1LEUM		TISSUI	TISSUE IS AUTOLYTIC	
PANCREAS			TISSUE IS AUTOLYTIC	
CECUM		TISSUE 1S	: IS AUTOLYTIC	
RECTUM			TISSUE IS AUTOLYTIC	
COLON		JUSSII	TISSUE IS AUTOLYTIC	
STOMACH		JUSSII	TISSUE IS AUTOLYTIC	
SCIATIC NERVE		TISSUE 18	: IS MISSING	
SKIN		11 SSUE 18	IS MISSING	
MAMMARY GLANDS		TISSUE IS	IS MISSING	
PITUITARY GLAND		TISSUE IS	S MISSING	
EYES & OPTIC M		TISSUE IS AUTOLYTIC	: 1S AUTOLYTIC	

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 56/PRETEST# 56 SEX: MALE DC DATE OF DEATH: 26-FEB-85 STUDY DAY OF DEATH: 401 S1	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 58 TERMINAL BODY WEIGHT: 375.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEDIASTINUMSTATIC SARCOMA	SEE COMMENT UNDER ABDOMINAL CAVITY. SEE CONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE AUTOLYTIC CHANGES ARE PRESENT IN ALL TISSUES. HOWEVER, THERE IS A HIGHLY CELLULAR NEOPLASH IN MANY AREAS OF THE BODY, PARTICULARLY IN THE MEDIASTINUM. THE DIAPHRAGH IS INVOLVED. PROBABLY THE SARCOMA ORIGINATED IN THE ABDOMINAL CAVITY NEAR THE
-M- SARCOMA, CELLULAR DIFFERENTIATION UNSPECIFIED	DIAPHRAGM AND EXTENDED INTO THE MEDIASTINUM. (PRESENT)
DIAPHRAGHSTATIC SARCOMACOMPOUND RELATED INFLAMMATORY REACTION	SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY NOT SPECIFIED (PRESENT)

DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: O B S E R V A T I O M S >> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT DUODENUM, DIAPHRAGM TRACE PRESENT BULATERAL, MULTIPLE VARIABLY SIZED, YELLOW PRESENT DARK RED, '4CM DIAMETER O B S E R V A T I O N S >> O ISTRIBUTION (SEVERITY) / SPECIAL COMMENTS O ISTRIBUTION (SEVERITY) / SPECIAL COMMENTS O ISTRIBUTION (SEVERITY) / SPECIAL COMMENTS NOT SPECIFIED (MODERATE) MULTI-FOCAL (TRACE) FOCAL (MARKED) NOT SPECIFIED (MODERATE) MULTI-FOCAL (MARKED) NOT SPECIFIED (MODERATE) NOT SPECIFIED (MODERATE)	APP LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	Appendle Letterman army institute of research DIV of res supp, path serv GP Species: Rat/Fischer-344	(cont.):	EATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER: T DATE: 23-JAN-84	INDIVIDUAL AND DATA REPORT GLP83009	LMAL DATA PRINTED: 21-NOV-89 PAGE: 121 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ME KEYWORDS / PHRASES KEYWORDS / PHRASES ADHESION(S) ADHESION(S) GRANUTH S) / MASS(ES) FRESENT FRES	ANIMAL NUMBER: DATE OF DEATH: 0	57/PRETEST= 3-FEB-86 STUDY DA		DOSE GRO	SACRIFICE DEATH: 107 T	CRIFICE HT: 327.00 (GMS)
ADHESION(S) GRANULAR SURFACE GROWTH(S) / MASS(ES) FRESENT GROWTH(S) / MASS(ES) FRESENT CAN I CR O S C O P I C T I S S U E HISTOPATHOLOGIC FINDINGS GLANDS A-FOLLICULAR CELL ADENOMA MYOPATHY MYOPATH	ORGAN NAME	<< GROSS KEYWORDS / PI	R G A N O	S E R V A SEVERITY	T 1 0 N S >> GROSS FREE-TEXT COMMENTS	, , , , , , , , , , , , , , , , , , ,
AYOPATHY MYOPATHY MYOPAT	LIVER KIDNEY TESTES PITUITARY GLAND	ADMESTON(S) GRANULAR SURI GROWTH(S) / I		PRESENT TRACE PRESENT PRESENT	DUODENUM, DIAPHRAGM BILATERAL, MULTIPLE VARIABLY SIZED, YEI DARK RED, .4CM DIAMETER	HON.
GLANDS A-FOLLICULAR CELL ADENOMA WYOPATHY HYPERTROPHY OF MUSCULAR ARTERIES UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TIS CYTIC VACUOLIZATION IS CAPSULAR NO COMPOUND CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE REMAL DISEASE	TISSUE / HISTOPAL	: 0	C O P I C T I	; >	· ` ` :	SIN
MYOPATHY HYPERTROPHY OF MUSCULAR ARTERIES UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TIS OF CELLULAR ALTERATION - BASOPHILIC CYTIC VACUOLIZATION IS CAPSULAR NO COMPOUND CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE REMAL DISEASE	THYROID GLANDS .	ULAR CELL ADENOMA			(PRESENT)	
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TIS OF CELLULAR ALTERATION - BASOPHILIC CYTIC VACUOLIZATION IS CAPSULAR NO COMPOUND CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE REMAL DISEASE	-CARDIONYOPATHY -MEDIAL HYPERTRO	OPHY OF MUSCULAR ARTI	ERIES		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)	
SSIVE REWAL DISEASE	-BILE DUCTULE EF- -BEATITIS -FOCUS OF CELLUI -HEPATOCYTIC VAC -FIBROSIS CAPSUL -NEPATOCYTE COAL	PITHELIAL HYPERPLASI/ LAR ALTERATION - BASI CUCLIZATION LAR NO COMPOUND LESCING MICROVESICUL/ INERALIZATION	A AND/OR CHOLANGIOFIB OPHILIC AR (FATTY) CHANGE LEA		NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE) FOCAL(MARKED) NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD)	
	KIDNEYPROGRESSIVE REN	IAL DISEASE		•	NOT SPECIFIED (MODERATE)	
-CHRONIC PROSTATITIS - BENIGN HYPERPLASIA NOT SPECIFIED (MILD)	చ ≖	1111s 1SIA			NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)	

ont.): P. INDI STUDY START DA	
57 SEX: MALE DEATH: 743	SACRIFICE STATE OF THE STATE OF
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
CECUM	NOT SPECIFIED (PRESENT)
STOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
SKELETAL MUSCLE	SKELETAL MUSCLE SECTION FROM THE LEG IS MISSING. SKELETAL MUSCLE IN OTHER LOCATIONS, EG. PARAVERTEBRAL, IS NORMAL.
SCIATIC MERVE	
MAMMARY GLANDS	NOT SPECIFIED(MILD)
BONE, FEMUR	TISSUE IS MISSING
ADRENAL	(PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

Appendix LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ט	(cont.):	* - :	OGY ANIMAL IUMBER: JAN-84	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY INDIVIDUAL STUDY TYPE: CH	ANIMAL	CMAL DATA PRINTED: 21-NOV-89 PAGE: 123 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC	PRINTED: 21- PAGE: 123 C/2 YR CARCI	PRINTED: 21-NOV-89 PAGE: 123 C/2 YR CARCINGENIC
ANIMAL NUMBER: 57/PRETESTS DATE OF DEATH: 03-FEB-86 STUDY DAY OF		57 SEX: MALE DEATH: 743		UP: 1 EK OF C	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 327.00 (GMS)	TATUS: FIN/	AL SACRIFICE WEIGHT: 327.00 (GMS)	327.00 (6	
TISSUE / HISTOPATHOLOGIC FINDINGS	0	0 P 1 C T 1	T I S S U E	O B S E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS	0 0 0 0 0 0 0 0 1 1 1	* * * * * * * * * * * * * * * * * * *
DIAPHRAGM	_		:	MISCELL THERE		ECTIVE TISS	SUE REACTION	ON THE A	BDOMINAL
-COMPOUND RELATED INFLAMMATORY REACTION	NO			SURFACE OF THE NOT SPE	SURFACE OF THE DIAPHRAGM WITH ADHESION TO THE CAPSULAR SURFACE OF THE LIVER. NO COMPOUND IS PRESENT IN SECTION EXAMINED. NOT SPECIFIED (PRESENT)	4 WITH ADHE ND IS PRESE	SION TO THE ENT IN SECTI	CAPSULAR ON EXAMIN	SURFACE ED.

STUDY START DATE: 23-JAN-64 STUDY START DATE: 23-JAN-64 60 SEX: WALE DOSE GROUP: 1 SARIFICE STATU OR G A N O B S E R V A T I O N S SEVERITY OF G A N O B S E R V A T I O N S SEVERITY BULAR MARKINGS MARKED 6.2 X 1.5 X .5CM LATERALLY PRESENT DIAPHRAGM PRESENT DIAPHRAGM AACE AACE AACE AACE AACE AACE AACE AAC	(J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
NUMBER: 22-JAN-66 STUDY DAY OF DEATH: 731 STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: FORTH STUDY DAY OF DEATH: 731 STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: FORTH STUDY FORTH WITH TOWN STUDY SEVERITY GROSS FREE-FEX COMMENTS FORTH WITH TOWN STUDY STUDY SEVERITY GROSS FREE-FEX COMMENTS FORTH WITH TOWN STUDY STUDY SEVERITY SEVERITY SEVERITY SECONOMENTS FREE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) FREE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) FREE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) FREE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) FREE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) FREE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) FREE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT)	STUDY STAR	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CA
KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / PHRASES KEYLORDS / SCONDER AND SERVING	60 SEX: MALE D DEATH: 731 S	SACRIFICE STATUS: FOUND DEAD DEATH: 105 TERMINAL BODY WEIGHT:
ENLARGED (SPLENOMEGALY) RESENT ENLARGED (SPLENOMEGALY) RESENT ADMESTON(S) RESENT ADMESTON(S) RESENT ADMESTON(S) RESENT ADMESTON RESENT ADMESTON RESENT ARROUNDER SURFACE ARROU	C C C C C C C C C C C C C C C C C C C	V A T I O N S >> TY GROSS FREE-TEXT COMMENTS
ATROPATHOL & SURFACE ATROPATHOL & SARALL, UNILATERALLY PRESENT GROWTH(S) / MASS(ES) ASS(ES) BODY POST MORTEM AUTOLYSIS. M ENLARGED (SPLENOMEGALY) AL ENLARGED, BILATERALLY ADMESION(S) PROMINENT LOBULAR MARKINGS	•	
A HISTOPATHOLOGIC FINDINGS A HICROSCOPIC TISSUE DE BERVATION (SEVERITY) GLANDS GLANDS ANTOLYTIC ONYOPATHY GEGRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC ONYOPATHY RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (PRESENT) (PRESENT) (PRESENT) (PRESENT) (PRESENT) (PRESENT) (PRESENT) (PRESENT) (PRESENT)	GRANULAR SURFACE ATROPHIC / SMALL, UNILATERALLY GROWTH(S) / MASS(ES)	
GLAWDS GLAWDS MYOPATHY RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC ONIA, INTERSTITIAL, CHRONIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	0 \$ C 0 P 1 C T 1 S S U	: <:
GLAMDS OMYOPATHY RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC ONIA, INTERSTITIAL, CHRONIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	LARGE GRANULE LYMPHOCYTE LEUKEMIA, MET	(PRESENT)
ONYOPATHY RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC ONIA, INTERSTITIAL, CHRONIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC KGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC KGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC		TISSUE IS AUTOLYTIC
ONIA, INTERSTITIAL, CHRONIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC C RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC C RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	DIOMYOPATHY LARGE GRANULAR LYMPHOCYTE LEUKEMIA,	_
RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	JHONIA, INTERSTITIAL, CHRONIC ARGE GRANULAR LYMPHOCYTE LEUKEMIA, I	MULTI-FOCAL(MILD) (PRESENT)
RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	RGE GRANULAR LYMPHOCYTE LEUKEMIA, ME	(PRESENT)
	RGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT)

(cont.)	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 START DATE: 23-JAN-84	ANIMAL DATA STUDY TYPE: CHROW
ANIMAL WUMBER: 60/PRETEST= 60 SEX: MALE DATE OF DEATH: 22-JAM-86 STUDY DAY OF DEATH: 731	DOSE GROUP: 1 SACRIFICE STUDY WEEK OF DEATH: 105 TE	SACRIFICE STATUS: FOUND DEAD 105 TERMINAL BODY WEIGHT: 336.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	S S U E O B S E R V A T I O N S DISTRIBUTION (SEVERITY) /	S >> / SPECIAL CONNENTS
LYMPH MODES	(PRESENT)	
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BELE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED (PRESENT) SFIBROSIS NOT SPECIFIED(MI: ") NOT SPECIFIED (MODERATE) (PRESENT)	
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)	
URIMARY BLADDER	TISSUE IS AUTOLYTIC	
PRCSTATE	TISSUE IS AUTOLYTIC	
COMG GL	TISSUE IS AUTOLYTIC	
SEMINAL VESICLE	TISSUE IS AUTOLYTIC	
TESTES	(PRESEN!)	
DUODENUM	TISSUE IS AUTOLYTIC	
JE JUNUM	TISSUE IS AUTOLYTIC	
ILEUM	TISSUE IS AUTOLYTIC	
	1330E 13 VOICE 11 VOICE	

Appendix J (cont.): LETTERMAN ARMY INSTITUTE OF RESEARCH AIV OF PES SIDP DATH SERV GP	PATHOLOGY INDIVIDUAL ANIMAES	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009
	≃ '	STUDY TYPE: CHRONIC/2 YR C
22-JAN	STUDY WEEK	JF DEATH:
PA/HO'OGIC F	S S U E O B	` ` :
PANCREAS	3811	TISSUE IS AUTOLYTIC
CFCUM	1155	TISSUE IS AUTOLYTIC
RECTUM	TISSUE IS AUTOLYTIC	UE IS AUTOLYTIC
COLON	1155	TISSUE IS AUTOLYTIC
SCIATIC NERVE	1155	TISSUE IS MISSING
MAMMARY GLANDS		NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	:	INFLAMMATORY INFILTRATE INVOLVES NASO-LARCRMAL DUCT. NOT SPECIFIED(MILD)
BONE, STERNUM	(PRESENT)	SENT)
BONE, FEMUR	(PRESENT)	SENT)
BONE VERT	(PRESENT)	SENT)
ADRENAL	(PRESENT)	SENT)
PITUITARY GLAND TISSUE IS MISSING	SS11	IVE IS MISSING

IMAL DATA PRINTED: 21-NOV-89 PAGE: 130 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	336.00 (GMS)			IPHOCYTE LEUKEMIA. IRTUALLY EVERY RGANS WHICH ARE DOED DETAILED	
JAL AN:	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT:	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	TISSUE IS AUTOLYTIC	THIS IS AN EXTENSIVE CASE OF LARGE GRANULE LYMPHOCYTE LEUKEMIA. NEOPLASTIC CELLS OF THIS TYPE ARE PRESENT IN VIRTUALLY EVERY ORGAN. THE CONDITION WAS CODED ONLY IN THOSE ORGANS WHICH ARE EXTENSIVELY INVOLVED. AUTOLYTIC CHANGES PRECLUDED DETAILED HISTOLOGIC EVALUATION OF THOSE ORGANS INDICATED. (PRESENT)	MISCELLANEOUS TISSUE
AR IN	DOSE GROUP: 1 STUDY WEEK OF DE		118sue 1	NEOPLAST ORGAN. T ORGAN. T EXTENSIV HISTOLOG (PRESENT)	MISCELLA
, d	60 SEX: MALE DAY OF DEATH: 731	SCOPIC TISSUE		KEMIA	:
Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 60/PRETEST= Date of Death: 22-Jan-66 Study Day of	TISSUE / HISTOPATHOLOGIC FINDINGS	EYES & OPTIC N	WHOLE BODY	IAPHRAGM
LETTE DIV OF SPECTI	ANIMA DATE	11 \$SU(EYES 4	WHOLE	DIAPHRAGM - COMPOUNT

Appendix J (cont.): PA:	PATHOLOGY INDIVIDUAL ANIMAL DATA
IN STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
61 SEX: MALE DEATH: 745	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 380.00 (GMS)
C C C C C C C C C C C C C C C C C C C	V A T I O N S VV
ADNESION(S) GROUTH(S) / MASS(ES) ATROPHIC / SMALL, UNILATERALLY	
TESTES EMLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT SPLEEN ENLARGED (SPLENOMEGALY) TRACE PITUITARY GLAND DISCOLORATION	
CROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEM	NOT SPECIFIED (PRESENT)
LYMPH NODES	REACTIVE HYPERPLASIA, RBC'S AND PIGMENT NOTED IN MEDIASTIANL NODE.
MEDULLARY SINUSES -Reactive myperplasia	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -GOMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NECROSIS -CYSTIC DEGENERATION	NOT SPECIFIED (PRESENT) MOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) FOCAL(TRACE) NOT SPECIFIED (PRESENT)

J (cont.): IN STUDY START	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHRO
ANIMAL NUMBER: 61/PRETEST= 61 SEX: MALE DOSE DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745 STUDY	SACRIF OF DEATH: 107
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
PROGRESSIVE RENAL DISEASE	. NOT SPECIFIED(MILD)
PROSTATE	. NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	. MULTI-FOCAL(MILD)
COLON	(PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASAL SEPTUM AND TURBINATE Unilaterally. Not specified(Mild)
PITUITARY GLAND	(PRESENT)
EYES IN OPTIC X.	

IAL DATA		SACRIFICE STATUS: FINAL SACRIFICE 1: 107 IERMINAL BODY WEIGHT: 380.00 (GMS)	O N S >>		
ANIE	SI	ATUS:	SPEI		
PATHOLOGY INDIVIDUAL ANIMAL DATA	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84	•	O B S E R V A T 1 O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	MISCELLANEOUS TISSUE
X90	IMBER:	F: 1	18 S 1	OT SPE OT SPE OT SPE	ISCELI OT SPE
PATHOL	INDIVIDUAL ANIMAL STUDY START DATE: 23-JAN-84	DOSE GROUP: 1 STUDY WEEK OF DEAT	! ! #	:	I Ž
::	STAI). 		SCLE	
(cont.):	STUDY ST	61 SEX: MALE DEATH: 745	PIC TISSUE	LATERAL C LIZATION, LE WITH C	
ם			0 0	UNI UNERAL	NO
Appendix	LETTERMAN ARRY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 61/PRETEST= DATE OF DEATH: 05-FEB-86 STUDY DAY OF	TISSUE / NISTOPATHOLOGIC FINDINGS	EYES & OPTIC N	COMPOUND RELATED INFLAMMATORY REACTION

(cont.):	INDIVIDUAL DATA REPORT GLP83009
SER: 62/PRETEST= 62 SEX: MALE ATH: 10-MAY-85 STUDY DAY OF DEATH: 474	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 68 TERMINAL BODY WEIGHT: 438.00 (GMS)
ORGAN NAME KEYWORDS / PHRASES SEVENETTY	GROSS FREE-TEXT COMMENTS
ONEAL CAV. ROUGHENED PERITONEAL SURFACE MASS(ES) UM GROWTH(S) / MASS(ES)	NI FIRE, MILE, FULLINGBOLAR, *LM DIAMETER NI DIAPHRAGM TO LIVER AND MASS NI AREA OVERLYING MASS NI BRIGHT RED, .5CM DIAMETER NI RED, 5 X 1CM, SMALL SECTION OF INTESTINE IS INCORPORATED INTO
<pre></pre>	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
HEART	NOT SPECIFIED(TRACE)
LYMPH NODES	PRESENT IN MESENTERIC NODE. NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
DUODENUM	

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
E OF RESEARCH RV GP STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL NUMBER: 62/PRETEST= 62 SEX; MALE DOSE DATE OF DEATH: 10-MAY-85 STUDY DAY OF DEATH: 474 STUDY	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 68 TERMINAL BODY WEIGHT: 438.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
DUODENUM	NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
ILEUM	SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY
PANCREAS	NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
CECUM OF METASTATIC SARCOMA	SECONDARY NEOPLASM FROM ORGAN
COLON	. NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	
-MIXED INFLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, Turbinates, Naso-Lacrimal Ducts	UNITATEMALLY. NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT) NOT SPECIFIED (PRESENT)
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE

Appendix J LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	G (cont.): E	NDT.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
62/PRETEST= 0-MAY-85 STUDY DAY (62 SEX: MALE DF DEATH: 474	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 68 TERMINAL BODY WEIGHT: 438.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OPIC TISSUE	U E O B S E R V A T I O N S Y Y DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ABDOMINAL CAVITY	UNSPECIFIED	THERE IS EXTENSIVE HEPATIC INVOLVEMENT WHERE THE NEOPLASM RESEMBLES A NEOURFIBROSARCOMA. ELSEWHERE IT IS EITHER POORLY DIFFERENTIATED OR RESEMBLES FIBROSARCOMA. IN SECTION #24 IT IS IMPLANTED ON THE PERITONEAL SURFACE OF THE ABDOMINAL WALL. THERE IS EXTENSIVE INVOLVEMENT OF THE INTESTINAL TRACT AT SEVERAL (PRESENT)
DIAPHRAGM		SECONDARY NEOPLASUE NOT SECTIONE NOT SECTION OF SECTION

Appendix J	J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR	AL DATA REPORT R: GLP83009 84
ANIMAL NUMBER: 63/PRETEST= DATE OF DEATH: 03-JAN-86 STUDY DAY OF	63 SEX: MALE F DEATH: 712	. • ~
ORGAN NAME C G R O S S O R	8 C X C O B	< _
LIVER GRANULAR SURFACE LIVER ENLARGED LIVER ADMESION(S) LUNGS DISCOLORATION SPLEN ENLARGED (SPLENOM)	- EGALY) ES)	
TISSUE / MISTOPATHOLOGIC FINDINGS		PRESENT GREEN/BROWN WITH MULTIPLE PINPOINT WHITE FOCI
MEARTCARDIOMYOPATHY -MEDIAL MYPERTROPHY OF MUSCULAR ARTERIES	S	MOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
- PNEUMONIA, INTERSTITIAL, CHRONIC - N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA,	METASTATIC	
THYMUS	METASTATIC	(PRESENT)
SPLEEN	METASTATIC	(PRESENT)
LYMPH NODES	METASTATIC	(PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION		NOT SPECIFIED (PRESENT)

STUDY STAR	DATA REPORT GLP83009
63 SEX: MALE DEATH: 712	•
TISSUE / HISTOPATHOLOGIC FINDINGS	E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERNEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC)NECROSIS, PERIACINARN	DIFFUSE(MODERATE) NOT SPECIFIED(MODERATE) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(TRACE) (PRESENT)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
SEMINAL VESIGLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
DUODENUM	NOT SPECIFIED (PRESENT)
ILEUM LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT)
PANCREAS	NOT SPECIFIED(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
EST= 63 SEX: MALE TUDY DAY OF DEATH: 712	STATUS: SACRIFICED MORIBUND FRMINAL BODY WEIGHT: 378.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BONE, STERMUM	(PRESENT)
BONE, FEMUR	(PRESENT)
BONE VERT	(PRESENT)
ADREMAL	FOCAL(TRACE)
EYES & OPTIC N	THE LENS OF ONE EYE (SECTION #19A) IS MISSING DUE TO PROCESSING ARTIFACT. NOT SPECIFIED (PRESENT)
WHOLE BODY	
DIAPHRAGM	

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
64/PRETEST# 64 SEX: MALE 05-FEB-86 STUDY DAY OF DEATH: 745	SACRIFICE DEATH: 107 T
C G R O S S O R G A N O B KEYWORDS / PHRASES	
LIVER ADHESION(S) FRESENT LIVER HODULE(S) FESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT PRESENT PRESENT PRESENT	DISPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES SLIGHTLY PALE, RAISED, LOBULAR, 1.25CM DIAMETER RIGHT, 3 x 1.75CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK DARK RED, .2CM DIAMETER, FOCAL
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROLD	TISSUE IS MISSING
DIOMYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEN	. FOCAL(TRACE)
LYMPH NODES	. REACTIVE HYPERPLASIA INCLUDING THE PRESENCE OF MAST CELLS ARE NOTED IN CERVICAL AND MESENTERIC NODES.
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -HEPATOCYTIC VACUOLIZATION	. VACUOLIZATION OF HEPATOCYTES AND SUBSEQUENT DEGENERATION AND MINERALIZATION ARE MARKED IN ONE AREA. THESE CHANGES PROBABLY ACCOUNT FOR THE GROSS APPEARANCE DESCRIBED AS A SLIGHTLY PALE RAISED LOBULAR NODULE. NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE)

Appendix	J (cont.):	PATHOLOGY		INDIVIDUAL	ANIMAL	DATA		
	•	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	HIMAL DATA 18ER: GLP83 NN-84	DATA REPORT GLP83009	STUDY	PRINTED: 21-NO PAGE: 141 STUDY TYPE: CHRONIC/2 YR CARCINO	PRINTED: 21- PAGE: 141 IC/2 YR CARCI	21-NO 141 IRC1NO
ANIMAL WUMBER: 64/PRETEST= DATE OF DEATH: 05-FEB-86 STUDY DAY	64 SEX: MALE DAY OF DEATH: 745	DOSE GROUSTUDY WEE	2: 1 C OF DEATH:	SACRIFICE S	TATUS: FIN	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 393.00 (GMS)	E 393.00 (GNS)	ins)
TISSUE / MISTOPATHOLOGIC FINDINGS	S C O P 1 C T 1	S S C E O	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	A T I O N S (SEVERITY)	/ SPECIAL	COMMENTS		
LIVER	ULAR (FATTY) CHANGE LEADING TO	:	MULTI-FOCAL(MILD) NOT SPECIFIED(MILD)	D(MILD)				
KIDMEY PROGRESSIVE REMAL DISEASE		•	NOT SPECIFIED(MILD)	(W11D)				
PROSTATE		:	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)	D(TRACE) D(MILD)				
SEMIMAL VESICLEGEWERALIZED ATROPHY		:	NOT SPECIFIED (PRESENT)	D (PRESENT)				
TESTES		ia)	(PRESENT)					
-COMPOUND RELATED INFLAMMATORY REACTION	NOI.	:	NOT SPECIFIED (PRESENT)	D (PRESENT)				
SKELETAL MUSCLE	TO FASCIA		NOT SPECIFIED (PRESENT)	D (PRESENT)				
-DILATATION (ECTASIA) OF DUCTS AND D	0 DUCTULES		NOT SPECIFIED (PRESENT)	D (PRESENT)				
PITUITARY GLAND		a)	(PRESENT)					
EYES & OPTIC N	MINERALIZATION, SCLERA	:	NOT SPECIFIED (PRESENT)	D (PRESENT)				
DIAPHRAGM MISCELLANEOUS TISSUE		:	SCELLANEOU	S TISSUE				

Appendix	<u>ت</u>	J (cont.):		HOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		S YOUTS	INDIVIDI STUI	INDIVIDUAL ANIMAL DATA REPO STUDY WUMBER: GLP83009 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT Study Mumber: Glp83009 I Date: 23-Jan-84	STUDY T	YPE: CHRON	PRINTED: 21-NOV-89 PAGE: 142 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	21-NOV-89 142 1CI NOGENIC
ANIMAL NUMBER: 64/PRETEST= 64 SEX: MAL	64 S F DEAT	64 SEX: MALE DEATH: 745	DOSE	DOSE GROUP: 1 STUDY WEEK OF DEAT	64 SEX: MALE DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE F DEATH: 745 STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 393.00 (GMS)	TATUS: FINA	L SACRIFIC WEIGHT:	393.00 (G	(\$)
TISSUE / HISTOPATHOLOGIC FINDINGS	- d	-		O 6 S 6	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS		
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESE)				MISCELL	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)				

Appendix J (cont.): OF RESEARCH RV GP	INDIVIDUAL AND DATA REPORT GLP83009
PRETEST 65 SEX: MALE	STUDY TYPE: CHRONI SACRIFICE STATUS: SACRIFICED MORI
CALE OF DEATH: 01-AUG-63 STUDY DAY OF DEATH: 55/ STUDY CALL OF G A W O B S E WORGAN MAME KEYWORDS / PHRASES SEVERITY	STUDY WEEK OF DEATH: 80 TERMINAL BODY WEIGHT: 408.00 (GMS)
	DIAPHRAGH, VENTRAL ABDOMINAL WALL, INTESTINES ULCERATED, FIRM, 1.5 CM X 1.5 CM LATERAL ABDOMEN
C T I S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
- CARDIOMYOPATHY	. NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -MECROSIS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	. WOT SPECIFIED(MILD)
TESTES	(PRESENT)
DUODENUM	. NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED (PRESENT)

ANIMAL DATA
INDIVIDUAL
PATHOLOGY
(cont.):
Appendix J

ITUTE OF RESEARCH TH SERV GP R-344 STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 65/PRETEST# 65 SEX: MALE DOSE GROUP: 1 DATE OF DEATH: 557 STUDY WEEK OF DE	SACRI SATH: 80
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
- B- FIBROMA	
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE

ANIMAL MIMBEO. AA/BBETECT.	Appendix J Letterhan army institute of research DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR	INDIVIDUAL ANIMAL STUDY NUMBER: START DATE: 23-JAN-84	NDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CAR	STUDY TYPE: C	PF: CHRONIC,	PRINTED: 21-NOV-89 PAGE: 145 STUDY IYPE: CHRONIC/2 YR CARCINGGNIC
21-JUL	66/PRETEST# 85 STUDY DAY OF	66 SEX: MAL DEATH: 546	DOSE GROUP: 1 STUDY WEEK OF	DOSE GROUP: 1 SACRIFICE STUDY WEEK OF DEATH: 78 TER	SACRIFICE STATUS: FOUND DEAD: 78 TERMINAL BODY WEIGHT:	DEAD EIGHT: 40	402.00 (GMS)
*	G R O S S O KEYWORDS / PHRASE	R G A N O B	. ≺	I O N S >> ROSS FREE-TEXT	• • • • • • • • • • • • •		
SKIR	SUBCUTANEOUS MASS	: o	PRESENT R	TIGHT FLANK, 1.5 X 1CM, SOFT BUT FIRM WHITE SOLID	SOFT BUT FIR	SM WHITE SOL	LID SMOOTH
TESTES	GROWTH(S) / MASS(GROWTH(S) / MASS((ES) (ES)	PRESENT 11 PRESENT 3	MASS LOUSELY ATTACHED TO ABDOMINAL HUSCULATURE TRREGULAR, VARIABLY SIZED, ANTERIOR HALF, YELLOW/WHITE 3 X 3 X 4CM DIALATION OF ILEUM LOCATED 1/3 LENGTH PROXIMAL TO ILEOCECAL JUNCTION. MASS IS SOLID TISSUE WITH MUCOID-	ED, ANTERIOR F ILEUM LOCAT	HALF, YELLG HALF, YELLG TED 1/3 LENG TO TISSUE WI	DU/WHITE GTH PROXIMAL ITH MUCOID-
DUODERUM	DISTENDED		PRESENT PRESENT	ENURABLE AFTERNANCE.			
TY GLAND	DISCOLORATION			DARK RED, SLIGHTLY RAISED, POSTERIOR SIDE,	ED, POSTERIOR	1 SIDE, .2C	.2CM DIAMETER
SALIVARY GLAND	INAR TISSUE		¥	ATROPHY INVOLVES PAROTID GLAND.	D GLAND.		
KEART			:	NOT SPECIFIED(MILD)			
LYMPH MODES	INFILIRATION, SUBCAPSULAR A	AND MEDULLARY SINUSES	•	REACTIVE MYPERPLASIA AND HISTIOCYTIC INFILTRATION ARE PRESENT IN SEVERAL NODES IN THE MEDIASTINUM. HISTIOCYTIC INFILTRATION IS ALSO PRESENT IN THE MESENTERIC NODE.STIOCYTIC INFILTRATION NOT SPECIFIED (PRESENT)	D HISTIOCYTIC Mediastinum. Mesenteric no	INFILTRATI	HISTICATION ARE PRESENT HISTICCATIC INFILTRATION SESTIOCATIC INFILTRATION
-REACTIVE MYPERPLASIA -LIVER	MMATORY REACTION L HYPERPLASIA AN 10N	D/OR CHOLANGIOFIB	:	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY	ORGAN ABDOMI	NAL CAVITY	
KIDMEYPROGRESSIVE REMAL DISEASE	ASE			NOT SPECIFIED(TRACE)			

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHRO
6/PRETEST 66 SEX: MALE 5 STUDY DAY OF DEATH: 546	DOSE GROUP: 1 SACRIFICE STATUS; FOUND DEAD STUDY WEEK OF DEATH: 78 TERMINAL BODY WEIGHT: 402.00 (GMS)
<pre><</pre>	0 B S E R V A T 1 0 M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT) SECONDARY WEOPLASM FROM ORGAN ABDOMINAL CAVITY
ILEUM	SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY NOT SPECIFIED (PRESENT)
STOMACH	. NOT SPECIFIED (PRESENT)
	. THE SUBCUTANEOUS MASS IN THE RIGHT FLANK IS A WELL-DEMARCATED, WELL-DIFFERENTIATED FIBROMA. MASSON'S TRICHROME STAIN DEMONSTRATES ABUNDANT MATURE COLLAGEN WITHIN THE TUMOR. PAS, IRON AND GIEMSA STAINS ARE NON-CONTRIBUTORY.
-8- FIBROMA	(PRESENT)
PITUITARY GLAND	(PRESENT)
-CORNEAL MINERALIZATION -CORNEAL MINERALIZATION -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
MEDIASTINUM	. MISCELLANEOUS TISSUE NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	APPENGLAX EN GP	- * 중	ڪ ت	(cont.):	.) : oy st.	AR DE	1V10U STUD ATE:	INC.): KATHOLOGX LADIVLDU INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAW-84	MAL DI ER: GI	ATA R	PATHOLOGY INDIVIDUAL DIVIDUAL DIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAN-84	3	ANIMAL DATA STUDY TYPE: CI	DAT	MAL DATA PRINTED: 21-MOV-89 PAGE: 147 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	PRINTI PAI	NTED: 21-N PAGE: 147 YR CARCIN	PRINTED: 21-NOV-89 PAGE: 147 C/2 YR CARCINOGENIO
ANIMAL NUMBER: 66/PRETEST# DATE OF DEATH: 21-JUL-85 STUDY DAY OF	66/PRETEST= 1L-85 STUDY	DAY	66 3F DEA	66 SEX: MALE DEATH: 546	MALE 46		DOSE	DOSE GROUP: 1 STUDY WEEK OF DI	1 0F DE/	S ATH:		E STAT	US: FO	UND DE	i	402.00 (GMS)	M9) Q	(S
TISSUE / MISTOPATHOLOGIC FINDINGS	* M 1 C R 0 S C * OGIC FINDINGS	, v	0 0	ပ		S	UE	810	OBSERVA!	R < A		N S N	ONS >> ERITY) / SPECIAL COMMENTS	HWOO .) 	! ! ! !
ABDOMINAL CAVITY	ULAR DIFFERENTIATION L	8	: >					THE THE THE THE THE THE THE THE THE THE	MISCELLAN THE MASS HANY AREA MASSON'S AMOUNTS THERE ARE	NEOUS INVO AS, T TRIC OF CO PAS	THE MASS INVOLVING SMALL INTESTINE AND LIVER IS A SARCOMA. IN MANY AREAS, THIS NEOPLASM HAS MYXOMATOUS DIFFERENTIATION. MASSON'S TRICHROME STAIN DEMONSTRATES SLIGHT TO MODERATE AMOUNTS OF COLLAGEN IN ASSOCIATION WITH THE NEOPLASTIC CELLS. THERE ARE A FEW HISTIOCYTIC CELLS CONTAINING IRON POSITIVE PIGMENT. PAS AND GIEMSA STAINS ARE NON-CONTRIBUTORY.	MALL I PLASM TAIN D IN ASSI 10CYTI MSA SI	NTESTII HAS MY; EMONSTI OCIATIC C CELL!	ME AND KOMATO KATES ON WIT	LIVER US DIFI SLIGHT H THE I AINING	IS A :	SARCO 1AT10 DERAT ST1C POS1T	MA. IN N. E Cells. Ive

SPECIES: RAT/FISCHER-344	364	STUDY START	START DATE: 23-JAN-84	STUDY NUMBER: GLP83009 T DATE: 23-JAN-84		STUDY TYPE:	STUDY TYPE: CHPONIC/2 YR CARCINGENIC	148 ARCINOGENIO
ANIMAL NUMBER: 67/PRETEST= DATE OF DEATH: 16-0CT-85 STUDY DAY OF	DAY OF	67 SEX: MALE DEATH: 633	DOSE GROUP: STUDY WEEK) OF DEATH:	RIFIC	E STATUS: SACRIFICED I	E STATUS: SACRIFICED MORIBUND TERMINAL BODY WEIGHT: 337.00 (GMS)	GMS)
ORGAN NAME	KEYWORDS / PHRASES	8 O N V 5	< .	T I O	N S >> FREE-TEXT COMMENTS			
PERITONEAL CAV. LIVER LIVER LIVER LYMPH NODES TESTES		INGS	PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT	7 X 2 X 1CM DIFFUSE DIAPHRAGM, VEI MESEWTERIC BILATERAL	T X 2 X 1CM DIFFUSE DIAPHRAGM, VENTRAL ABDOMINAL WALL MESENTERIC BILATERAL	r WALL		
TISSUE / MISTOPATHOLOGIC FINDINGS	0 3 8 0	0 1 1 2 7	S U E	OBSERVATIONS DISTRIBUTION (SEVERITY)		>> / SPECIAL COMMENTS	ENTS	
BRAIN	FACTION MECROSIS			THERE IS A FOCAL CAVITATION WHICH IS FILLED WITH BLOOD. FOCAL(MILD)	CAL CAVITATION D WITH BLOOD.	IN THE LAT	THERE IS A FOCAL CAVITATION IN THE LATERAL PART OF THE THALAMUS WHICH IS FILLED WITH BLOOD. FOCAL(MILD)	THALAMUS
TRACHEA	MEITIS			NOT SPECIFIED(MODERATE)	MODERATE)			
THYROID GLANDS			:	NOT SPECIFIED (PRESENT)	(PRESENT)			
PARATHYROID			:	TISSUE IS MISSING	J N C			
HEART	MPHOCYTE LEUKEMIA, M	METASTATIC	: ~	NOT SPECIFIED(MILD) (PRESENT)	M160)			
LUNGS	•	METASTATIC	:	(PRESENT)				

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

	TIVE TWITTE TOOT A TOOT A TOOT
ICH STUDY START	DATA REPORT GLP83009
67/PRETEST= 67 SEX: MALE T-85 STUDY DAY OF DEATH: 633	UP: 1 SACRIFICE STATU EK OF DEATH: 91 TERMINA
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYMUS	(PRESENT)
SPLEEN	(PRESENT)
LYMPH NODES	. ALL LYMPH NODES EXAMINED MICROSCOPICALLY (CERVICAL, MEDIASTINAL AND MESENTERIC) WERE COMPLETELY EFFACED BY NEOPLASTIC LYMPHOCYTE PROLIFERATION. (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -SILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NECROSIS -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE -M- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(MILD) (PRESENT)
URINARY BLADDER	. THERE IS NEOPLASTIC LYMPHOCYTIC INFILTRATION IN THE SUB-MUCOSA Of the Urimary bladder.
PROSTATE	NOT SPECIFIED (TRACE)
TESTES	(PRESENT)
ILEUM	(PRESENT)
PANCREAS	

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH BIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
67 SEX: MALE Death: 633	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 91 TERMINAL BODY WEIGHT: 337.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	(PRESENT)
STOWACH	(PRESENT)
SCIATIC NERVE	TISSUE IS MISSING
- DILATATION (ECTASIA) OF DUCTS AND DUCTULES	FOCAL (PRESENT)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	VIRTUALLY EVERY ORGAN AND TISSUE IN THIS ANIMAL CONTAINS AT LEAST A FEW NEOPLASTIC LYMPHOCYTES. THE LESION WAS CODED ONLY IN THOSE ORGANS AND TISSUES THAT WERE SO EXTENSIVELY INVOLVED AS TO DISTORT TISSUE ARCHITECTURE.
DIAPHRAGM	MISCELLANEOUS TISSUE Not Specified (Present)

Appendix J (cont.): Ple of Research study Study Start DA	INDIVIDUAL ANIMAL DATA POATA POATA REPORT STUDY TYPE: CHRONIC
MBER: 68/PRETEST 68 SEX: MALE EATH: 05-FEB-86 STJDY DAY OF DEATH: 745	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 367.00 (GMS)
C B O S S O R G A N O B KEYWORDS / PHRASES	T T O R S >> CROSS FREE-TEXT COMMENTS
EVES & OPTIC N. LENS CATARACT PRESENT LIVER ADMESSION(S) ANSS(ES) PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	RIGHT Diaphragm, ventral abdominal wall Bilateral, multiple variably sized, yellow
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
HEART	NOT SPECIFIED(TRACE)
LUNGS OF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
SPLEEN	NOT SPECIFIED(TRACE)
LYMPH NODES	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODE ONLY. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MARKED)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	

Appendix Letterman army institute of research DIV of res supp., Path Serv GP Species: Rat/Fischer-344	Appendix ITE OF RESEARCH SERV GP		(cont.):	E.): 10Y STAR	Ont.): PATHOLOGY INDIVIDUAL ANIMAL STUDY START DATE: 23-JAN-84	PATHOLOGY SIUDIAL ANIMAL SIUDY NUMBER:		INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CH	ANIMAL	DATA TYPE: CHRO	IMAL DATA PRINTED: 21-NOV-89 PAGE: 152 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL WUMBER: 68/PRETEST= DATE OF DEATH: 05-FE8-86 STUDY	68/PRETEST# 86 STUDY DAY OF	68 OF DE	68 SEX: MALE DEATH: 745	MALE '45	DOSE	DOSE GROUP: 1 SACRI STUDY WEEK OF DEATH: 107	1 OF DEAT		TERMINAL BODY WEIGHT:	AL SACRIF WEIGHT:	1CE 367.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	N C R O S C		0	S	3 7 8 8 1 1	8 0	S E R RIBUTI	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS	
PROSTATE	PROSTATITIS						SPECIF	NOT SPECIFIED(TRACE)			
SEMIMAL VESICLE	ROPHY			•			SPECIF	NOT SPECIFIED (PRESENT)			
TESTES	TIAL CELL ADENONA			•		(PRESENT)	ENT)				
SKELETAL MUSCLE					TISSUE IS MISSING	118	:UE 1S	HISSING			
SCIATIC NERVE						118	UE 1S	TISSUE IS MISSING			
-DILATATION (ECTASIA) OF DUCTS AND DUCTU	TASIA) OF DUCTS AND DUCTU	CTULES					SPECIF	NOT SPECIFIED (PRESENT)			
-RETINAL ATROPHY AND/OR DEGENERATION, UNILATERAL OR BILATERAL-METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA-LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	OR DEGENERATION, MATION AND/OR MI IVE CHANGES COMP	UNIL. NERAL ATIBLI	ATERAL IZATIO E WITH	ILLATERAL OR BILAT ALIZATION, SCLERA BLE WITH CATARACT	ATERAL RA CT	. KOT WOT	SPECIF SPECIF SPECIF	SPECIFIED (MODERATE) SPECIFIED (PRESENT) SPECIFIED (PRESENT)			
DIAPHRAGM	RELATED INFLAMMATORY REACTION	NO				NOT NOT	ELLANE SPECIF	MISCELLANEOUS TISSUE Not specified (present)			

DIV OF RES SUPP, PATH SEI SPECIES: RAT/FISCHER-344	LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	STUDY START	INDIVIDUAL ANIMAL STUDY NUMBER: STARI DATE: 23-JAM-84	DIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 DATE: 23-LAM-84	STUDY	CAND . LABO	PRINTED: 21-NOV-89 PAGE: 163 STUDY TYPE: CHBONIC/2 YR CARCINOCENIC
ANIMAL MUMBER: 79/ DATE OF DEATH: 19-DEC-85	. .	9 SEX: MAL EATH: 697	DOSE GROUP: 2 STUDY WEEK OF	SACRIFIC DEATH: 100	SACRIFICE STATUS: FOUND DEAD 100 TERMINAL BODY WEIGHT:	ND DEAD WEIGHT:	420.00 (GMS)
ORGAN NAME	< G R O S S O R KEYWORDS / PHRASES	ORGAN OB	< _	. 2 4	Ø		
PERITONEAL CAV. SPLEEN	FRANK BLOOD PRESENT ENLARGED (SPLENOMEGALY)	ESENT Nomegaly)		6 X 3CM	•		
LIVER	ADHESION(S)	,		VENTRAL ABDOMINAL WALL, 1CM AREA	1CM AREA		
LIVER Kidnet Testes	SWOLLEN Pitted Surface Growth(s) / Mass(e	SS(ES)	MODERATE Present Di Present Ri	DIFFUSE Right, White, Subcapsular, 1cm Diameter	AR, 1CM DIA	METER	
TISSUE / HISTOP	<pre></pre>	S 1	SUE	O B S E R V A T I O N S		SPECIAL COMMENTS	
HEART	EARTCARDIOHYOPATHY			NOT SPECIFIED (MODERATE)			
SPLEEN	PLEEN	A, HETASTATIC	(PRE	(PRESENT)			
LYMPH NODES			ARC	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. NORMAL NODAL Architecture of Mediastinal and Mesenteric Nodes is completely	TED IN CERV INAL AND ME	ICAL NODES	S. NORMAL NODAL Nodes is completely
-N- LARGE GRAN-REACTIVE HYPE	GRANULAR LYMPHOCYTE LEUKEMIA, Hyperplasia	A, METASTATIC	EFF (PRE	EFFACED BY METASTATIC LGLL. (present) Not specified (present)	GLL.		
-COMPOUND RELA-COMPOUND RELA-BILE DUCTULE -NECROSIS, HEP-N-LARGE GRAM	1VER	ON AND/OR CHOLANGIOFIBR LLS A, METASTATIC	:	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) (PRESENT)			
KIDNEY	- PROGRESSIVE RENAL DISEASE		NOT	NOT SPECIFIED(NODERATE)			
PROSTATE			:				

Appendix J (cont.): PR sev GP start DATE of Research strong Study START DATE	NTHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 IE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
79 SEX: MALE DO	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 100 TERMINAL BODY WEIGHT: 420.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIOES >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(MILD)
TESTES	(PRESENT)
HOSE/TURBINATES	
BORE, STERRUM	NOT SPECIFIED (PRESENT)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
SONE VERT	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	DIFFUSE(MARKED) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

	Appendix J (cont.):	PATHOLOGY IND	INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	ESEARCM STUDY STAR	A .: 9	PORT 9 STUDY TYPE: CHRONIC/2
2	80/PRETEST= 80 SEX: MALE 86 STUDY DAY OF DEATH: 736	DOSF GROUP: 2 SACRI STUDY WEEK OF DEATH: 106	SACRIFICE STATUS: FINAL SACRIFICE: 106 TERMINAL BODY WEIGHT: 381.00 (GMS)
ORGAN WANE	R G A M C 98	S E R V A T I O N S SEVERITY GROSS FREE-	T I O N S >> GROSS FREE-TEXT COMMENTS
SKIN LIVER TESTES TESTES	ULCER(S) / EROSION(S) ADHESION(S) ENLARGED GROUTH(S) / MASS(ES)	PRESENT TOP OF HEAD PRESENT 1.5CM AREA, MARKED 3.5 X 2CM PRESENT ENTIRE TEST	TOP OF HEAD BETWEEN EARS, 4MM DIAMETER 1.5CM AREA, VENTRAL PERITONEAL WALL 3.5 x 2cm Entire Testicle, Right, mottled Red and black.
TISSUE / MISTOPATHOLOGIC FINDINGS	0 S C 0 P I C T I S	SUE OBSERV DISTRIBUTION	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	L ADENONA	(PRESENT)	
LACRIMAL GLAND	ACINAR TISSUE	NOT SPECIFIED(TRACE)	D(TRACE)
EXORBITAL LACRIM		NOT SPECIFIED(TRACE)	D(TRACE)
HEART		NOT SPECIFIED(MILD)	D(MILD)
LUNGS	OWARY ARTERIES	NOT SPECIFIED(TRACE)	D(TRACE)
LYMPH NODES	PERPLASIA	REACTIVE HYPERPLASIA NO NOT SPECIFIED (PRESENT)	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODE. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/ -FOCUS OF CELLULAR ALTERATION - BASOPHILI -NEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S)	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -HEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASIC NODULE(S)	NOT NOT NOT HULL FOCA	SPECIFIED (PRESENT) SPECIFIED(MILD) SPECIFIED(TRACE) 1-FOCAL(TRACE)
KIDNEY			

Appendix	J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
ITUTE OF THE SERV R-344	STUDY STAR	DATA REPORT GLP83009 STUI
ANIMAL NUMBER: 80/PRETEST BOATE OF DEATH: 27-JAN-86 STUDY DAY OF	80 SEX: MALE DEATH: 736	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERNINAL BODY WEIGHT: 381.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS		OBSERVATIONS >>>
KIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED (MODERATE)
PROSTATE		NOT SPECIFIED (MILD) NOT SPECIFIED (TRACE)
TESTES		(PRESENT)
SKIN		
PITUITARY GLANDB- ADENOMA		. (PRESENT)
AD SEBACIOUS		TISSUE IS MISSING
ABDOMINAL CAVITY		HISCELLANEOUS TISSUE TEST MATERIAL AND ASSOCIATED GRANULOMATOUS REACTION IS PRESENT BETWEEN LIVER AND SKELETAL MUSCLE TISSUE. HIS PROBABLY IS THE
-CHRONIC INFLAMMATION DUE TO THE PRESENCE OF TEST COMPOUND (SITE SPECIFIED IN COMMENTS)	NCE OF TEST COMPOUND (SITE	ACRESSON TO THE VENITAL PERTICUEAL WALL NOTED GROSSLY. NOT SPECIFIED (PRESENT)

G A N O B S E R V A T I O N S PS CONNE STUDY WEEK OF DEATH: 106 T T S EVERITY GROSS FREE-TEXT CONNE PRESENT 1.5 X 1CM AREA, VENTR PRESENT BILATERAL PRESENT BILATERAL HOTTLED PRESENT 6MM DIAMETER, HOTTLED ON SPECIFIED (TRACE) I C T I S S U E O B S E R V A T I O N DISTRIBUTION (SEVERITY ON SPECIFIED (PRESEN NOT SPECIFIED (PRESEN NOT SPECIFIED (PRESEN MULTI-FOCAL (TRACE) NOT SPECIFIED (PRESEN MULTI-FOCAL (TRACE) NOT SPECIFIED (MODERATION SPECIFIED SPECIFIED (MODERATION SPECIFIED SPECIFIED SPECIFIED SPECIFIED SPECIFIED SPECIFIED SPECIFIED SPECIFIED SPECIFIED SPECIFIED	Appendix J (cont.): E of Research INDI	H 점당
MAME ** G R O S S O R G A N O B S E R V A ** KEYWORDS / PHRASES ** AUMESION(S) ** AUMESION(S) ** AUMESION(S) ** AUMESION OF PULMONARY ARTERIES ** AUDO CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ** LLARY SINUSES ** TIVE HYPERPLASIA ** OUND RELATED INFLAMMATORY REACTION *	11 SEX: MALE SEATH: 736	SACRIFICE DEATH: 106 T
ADDESENT GRANULAR SURFACE GRANULAR SURFACE GRANULAR SURFACE FRIZATION FOR THE SENT FALIZATION OF PULMONARY ARTERIES FOUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAH TYPERPLASIA AND/OR CHOLANGIOFIBROSIS TOCYTIC VACUOLIZATION IC DEGENERATION SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS FRESSIVE RENAL DISEASE FOUND RELATED	N W C W C W C W C W C W C W C W C W C W	I O N S >> OSS FREE-TEXT COMMENTS
/ HISTOPATHOLOGIC FINDINGS // HISTOPATHOLOGIC FINDINGS IOMYOPATHY RALIZATION OF PULHONARY ARTERIES HOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN LLARY SINUSES TIVE HYPERPLASIA DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS COUNTY IC VACUOLIZATION CO DEGENERATION SIS, HEPATOCYTIC, INDIVIDUAL CELLS RESSIVE RENAL DISEASE HISTORY HYPERPLASIA RESSIVE RENAL DISEASE HISTORY HIPPATOCYTITS GN HYPERPLASIA	AUMESION(S) GRANULAR SURFACE ENLARGED	1.5 X 1CM AREA, VENTRAL PERITONEAL WALL BILATERAL GMM DIAMETER, MOTTLED RED AND BLACK
RALIZATION OF PULMONARY ARTERIES MODES MODES LLARY SIMUSES TIVE HYPERPLASIA OUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TO EGENERATION SIS, HEPATOCYTIC, INDIVIDUAL CELLS SESSIVE RENAL DISEASE THE PROSTATITIS GN HYPERPLASIA	3 S C O P I C T I S S U	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
NODES MODES MITHIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ALLARY SIMUSES TIVE HYPERPLASIA DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS MOUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS MOUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS MOUND RELATED INFLAMMATORY REACTION SIS, HEPATOCYTIC, INDIVIDUAL CELLS MIC PROSTATITIS	HEART	NOT SPECIFIED(MILE)
BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN LLARY SINUSES TIVE HYPERPLASIA TIVE HYPERPLASIA OUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TOCYTIC VACUOLIZATION IC DEGENERATION SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS SIS, HEPATOCYTIC, INDIVIDUAL CELLS	ERALIZATION OF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LLARY SINUSES TIVE HYPERPLASIA OUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TOCYTIC VACUOLIZATION IC DEGENERATION SIS, HEPATOCYTIC, INDIVIDUAL CELLS RESSIVE RENAL DISEASE NIC PROSTATITIS	CEELS, HEMOSIDERIM AND/OR ERYT	RBC'S, PIGMENT AND REACTIVE HYPERPLASIA NOTED IN SEVERAL NODES IN THE CERVICAL AREA. NOT SPECIFIED (PRESENT)
DUND RELATED INFLAMMATORY REACTION DUNCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT TOCYTIC VACUOLIZATION IC DEGENERATION SIS, HEPATOCYTIC, INDIVIDUAL CELLS MULT RESSIVE REMAL DISEASE NOT TE NOT NOT NOT NOT NOT NOT		NOT SPECIFIED (PRESENT)
RESSIVE REMAL DISEASE TE	POUND RELATED INFLAMMATORY REACTION E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS ATOCYTIC VACUOLIZATION TIC DEGENERATION E. S.S.S., HEPATOCYTIC, INDIVIDUAL CELLS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE)
C PROSTATITIS NOT HYPERPLASIA	RESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
	C PROSTATITIS HYPERPLASIA	

Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP	Appendix of research rv GP	ט	(cont.):	at.	::	S	PATI	PATHOLOGY IVIDUAL ANIMAL STUDY NUMBER:		PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009	UAL	animal	DATA	PRINT	PRINTED: 21-NOV-89 PAGE: 168	~
SPECIES: RAT/FISCHER-344	61/PRETEST= 56 STUDY DAY		STUDY S 81 SEX: MALE DEATH: 736	TUDY TAA	STA	7	ATE: DOSE STUDY	STUDY START DATE: 23-JAN-84 X: MALE DOSE GROUP: 2 736 STUDY WEEK OF	-84 	ATE: 23-JAN-84 DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 368.00 (GMS)	FICE ST.	STUDY ATUS: FIN INAL BODY	TYPE: CHR	10NIC/2 Y	STUDY TYPE: CHRONIC/2 YR CARCINOGENIC	<u>.</u> ;
TISSUE / HISTOPATHOLOGIC FINDINGS	M I C R O S C O		PIC TISSUE		-	8		0 B O D I S	SETRIBL	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ON S ERITY)	/ SPECIAL	COMMENTS			:
TESTES	RITIS NODOSA	:				:	:	NOT	SPEC	NOT SPECIFIED (PRESENT)	ESENT)					
NOSE/TURBINATES	L INFILTRATION, MAL DUCTS	×× .	SAL CA	VI Y		INUS	E.S.,	CEL NOT	LULAR	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT. JSES, NOT SPECIFIED(MILD)	TE 1S AI	JACENT N	ASO-LACRI	MAL DUCT		
ADRENALLIP1DOS1S						i			FUSE (DIFFUSE(MILD)						
PITUITARY GLANDB- ADENOMA				:		:		•	(PRESENT)							

Appendix J (cont.): TE OF RESEARCH SERV GP 44	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
82 SEX: MALE DEATH: 689	: 3 =
S O R G A K O BS	: «
LIVER ADMESION(S) TESTES GROWTH(S) / MASS(ES) TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT JEJUNUM GROWTH(S) / MASS(ES) KIDNEY DISCOLORATION PRESENT PITUITARY GLAND FULRAGED	VENTRAL ABDOMINAL WALL LEFT, MULTIPLE VARIABLY SIZED RIGHT, 1.5 X .75CM WHITE, 1CM DIAMETER MINUTE, MULTIPLE, FOCAL, TAN 1 X .75CM. WHITE WITH MULTIPLE PIMPOINT BLACK FOCI
ATHOLOGIC	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
_	. NOT SPECIFIED(MILD)
LUNGS	FOCAL(TRACE) MULTI-FOCAL (PRESENT)
SPLEEN	. NOT SPECIFIED(MILD)
	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Reactive Hyperplasia, RBC'S and Pigment Present in Mediastinal Nodes. Not Specified (Present)
MEDULLARY SIMUSES -REACTIVE HYPERPLASIA	NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE)

Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ŏ	Ont.): PATHOLOGY INDIVIDUAL ANIMAL STUDY START DATE: 23-JAN-84	JOGY INDIVIDUAL ANIMAL DATA REPORT UMBER: GLP83009 JAN-84	UAL ANIMAL DATA T STUDY TYPE: CHRONI	IMAL DATA PRINTED: 21-NOV-89 PAGE: 170 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 82/PRETEST= DATE OF DEATH: 11-DEC-85 STUDY DAY OF	82 SEX DEATH:	DOSE GRO STUDY WE	DOSE GROUP: 2 SACRI STUDY WEEK OF DEATH: 99	· < =	BUND 317.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	0 9 1 5 1 1 5	S C E	O B S E R V A T I O N S DISTRIBUTION (SEVERITY)	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
LIVER		•	SECONDARY WEOPLAS	SECONDARY WEOPLASM FROM ORGAN ABDOJINAL CAVITY	>
FIGUREYPROGRESSIVE REMAL DISEASE			NOT SPECIFIED(MILD)	(a	
PROSTATE			NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)	(E) (E)	
TESTES			(PRESENT)		
JEJUNUM			SECONDARY NEOPLAS	SECONDARY WEOPLASM FROM ORGAN ABDOMINAL CAVITY	
MAMMARY GLANDS	TULES		NOT SPECIFIED (PRESENT)	ESENT)	
MOSE/TURBINATES	, MASAL CAVITY, SIMUSES,	:	CELLULAR INFILTRATE Not Specified(Trace)	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT NOT SPECIFIED(TRACE)	DUCT.
EYES & OPTIC W	ALIZATION, S	:	NOT SPECIFIED (PRESENT)	SSENT)	
MEDIASTINUM			MISCELLANEOUS TISSUE DIFFUSE(MILD)	SUE	
ABDOMINAL CAVITY			MISCELLANEOUS TISSUE	sue	

Appendix	,	<u>ဗ</u>	(cont.):	••	PAT	HOLOGY	IND	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIK	SAL	DATA			
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	=	,	TUDY	A R	NOIVID STU DATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY STARI DATE: 23-JAN-84	L DATA : GLP83	REPORT 1009	S	VOY 17	PE: CHR	PRIN' PA	MTED: 21- PAGE: 171 YR CARCI	PRINTED: 21-NOV-89 PAGE: 171 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 62/PRETEST= DATE OF DEATH: 11-DEC-85 STUDY DAY OF		82 SEX: MALE DEATH: 689	.: HAL	w	DOSE	GROUP: 2	DEATH	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 99 TERMINAL BODY WEIGHT: 317.0	STATUS: RMINAL	SACRI BODY W	FICED M	FICE STATUS: SACRIFICED MORIBUND TERMINAL BODY WEIGHT: 317.00 (GMS)	M9) 00	ŝ
TISSUE / MISTOPATHOLOGIC FINDINGS		PIC TISSUE	-		s u E	0 8 8	E R V 18UT I ON	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >>	CIAL	OMMENTS	t 1 1 1 1		
ABDOMINAL CAVITY						THE PRESENT OF THE PR	AND THE TANK TO THE TANK THE TANK THE TANK THE TANK THE TANK TANK TANK TANK TANK THE	THE PRIMARY SITE FOR THE SARCOMA IS THE LIVER WITH INFILTRATION PRESENT DIAPHRAGM. A FOCAL METASTATIC LESION IS ALSO PRESENT IN THE WALL OF THE JEJUNUM. THE MEOPLASTIC GROWTH IS A FAIRLY WELL-DIFFERENTIATED SARCOMA IN MOST SITES. THERE IS ONE AREA IN THE LIVER IN WHICH SARCOMA CELLS ARE MORE ANAPLASTIC. IN THIS AREA MASSOWN'S RECOME STAIN DEMONSTRATES ABUNDANT COLLAGEN AROUND MOST OF THE TUMOR CELLS. RETICULIN STAIN DEMONSTRATES MANY RETICULIN FIBERS SURROUNDING INDIVIDUAL CELLS. PAS STAIN REVEALS PAS POSITIVE MATERIAL IN RESIDUAL HEPATOCYTES BUT NOT IN NEOPLASTIC CELLS. CONGO RED, BILE STAIN AND PTAH STAINS ARE NEGATIVE. THESE FEATURES ALL SUPPORT THE DIAGNOSIS OF SARCOMA RATHER THAN HEPATOCELLULAR CARCINOMA.	HE SARC M. A FO THE JE TIATED TIATED TRICHRO FOLLIN F CULIN F CULIN F CELLS.	COMA 18 SCACOM SCACOM SCACOM OMOR CO 18ERS E MATE CONGO	THE LI TASTATI THE N THE N A IN MO CELLS A SURROUN RIAL IN RED, BI	VER WITTERSTORMS ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST STEE ST ST STEE ST ST STEE ST ST ST ST STEE ST ST ST ST ST ST ST ST ST ST ST ST ST S	H INFI IC GRO S. THE ANAPL S. ABUN S. TAI OIVIDU	LTRATION LSO WIH IS WIH IS WIH IS ANIC. AL CELLS AL CELLS ATOCYTES GNOSIS
DIAPERAGE		CALLOR CASCACTOR CALLOR				MISCELLA SECONDAR	M'' LLANEOU DARY NE	TRESERLANEOUS TISSUE SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY	M ORGAN	ABDOM	INAL CA	VI T Y		
-COMPOUND RELATED INFLAMMATORY REACTION	CTION					NOT	PECIFIE	NOT SPECIFIED (PRESENT)	~					

DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUDY STAR	STUDY NUMBER: Study Start Date: 23-jan-84	STUDY NUMBER: GLP83009 T DATE: 23-JAN-84	PAGE: 172 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: DATE OF DEATH: 27-J	ANIMAL NUMBER: 83/PRETEST= DATE OF DEATH: 27-JAN-86 STUDY DAY OF	83 SEX: DEATH:	DOSE GROUP: 2 STUDY WEEK OF	DEATH:	SACRIFICE STATUS: FINAL SACRIFICE 106 TERMINAL BODY WEIGHT: 366.00 (GMS)
ORGAN NAME	<pre>< G R O S S O R KEYWORDS / PHRASES</pre>	ORGAR OB	< _	T 1 0 N S >> GROSS FREE-TEXT COMMENTS	S19
TESTES	ENLARGED GROWTH(S) / MASS ADMESION(S)	SS(ES)	PRESENT PRESEN	BILATERAL, RIGHT 2.75 X 1.75CM, LEFT BILATERAL, MULTIPLE, VARIABLY SIZED, LEFT VENTRAL PERITONEAL WALL, 1.5 X	X 1.75CM,LEFT 2.5 X 1.5CM X 1.75CM,LEFT 2.5 X 1.5CM NRIABLY SIZED, RED, BLACK AND YELLOW NL WALL, 1.5 X 1CM AREA
TISSUE / HISTOPATHO	A HISTOPATHOLOGIC FINDINGS	0 P I C T I S	s u E	O B S E R V A T I O M S DISTRIBUTION (SEVERITY)	S >> () / SPECIAL COMMENTS
THYROID GLANDS	HYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C"	" CELL, LIGHT CELL)	•	MULTI-FOCAL(TRACE)	
HEART	EART	IES		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)	
LYMPH MODES	VIS			REACTIVE HYPERPLASIA NO Not specified (present)	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present)
-COMPOUND RELATED INFLAMMATO -BILE DUCTULE EPITHELIAL HYPNEPATITIS -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MICRO	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AN -HEPATITIS -HEPATOCYTIC VACUOLIZATION -HEPATOCYTE COALESCING MICROVESICULAR (NECROSIS AND MINERALIZATION	D/OR CHOLANGIOFI	;	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD)	
KIDNEYPROGRESSIVE RENAL	IDNEYPROGRESSIVE RENAL DISEASE		;	NOT SPECIFIED(MILD)	
PROSTATE	PROSTATITIS		*	NOT SPECIFIED(MILD)	

Appendix J (cont.):	PATROLOGY INDIVIDUAL ANIMAL DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 173 C/2 YR CARCINGENIC
AMIMAL MUMBER: 83/PRETEST= 83 SEX: MALE DATE OF DEATH: 27-JAM-86 STUDY DAY OF DEATH: 736	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 366.00 (GMS)	56.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	U E O B S E R'V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
TESTES	(PRESENT)	
EYES & OPTIC N	RAI NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)	
ABDOMINAL CAVITY	TEST COMPOUND AND ASSOCIATED GRANULOMATOUS RESPONSE IS NOTED BETWEEN LIVER AND SKELETAL MUSCLE. THIS IS PROBABLY THE ADHESION TO THE LEFT VENTRAL PERITONEAL MAIL MOTED GROSSLY	ONSE IS WOTED IABLY THE ADMESION
-CHRONIC INFLANMATION DUE TO THE PRESENCE OF TEST COMPOUND (SITE SPECIFIED IN COMMENTS)	(SITE NOT SPECIFIED (PRESENT)	•

× ×): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 START DATE: 23-JAN-84 STAR DATE: CHRONIC/2 YR CARCINGGENIC
84 SEX: MALE AY OF DEATH: 736	2 SACRIFICE STATU OF DEATH: 106 TERMINA
N WAME KEYLORDS / PHRASES S	
LIVER ADHESION(S) LIVER PROMINENT LOBULAR MARKINGS PRESENT LIVER GRANULAR SURFACE PRESENT SPLEEN ENLARGED (SPLENOMEGALY) MODERATE	NT VENTRAL ABDOMINAL WALL IT IT IT IT IT IT
C M I C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL)	MOT SPECIFIED(TRACE)
HEART	MOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE)
-FOCAL NYPERPLASTIC PROLIFERATION OF TYPE 2 ALVEOLAR EPITHELIAL CELLS WITH OR WITHOUT INFLAMMATORY CELL INFILTRATION -NIMERALIZATION OF PULMONARY ARTERIES -N - LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -B - BRONCHIOLAR/ALVEOLAR ADENOMA	NOT SPECIFIED (MODERATE) NOT SPECIFIED (MILD) (PRESENT)
SPLEEN	(PRESENT)
LYMPH NODES	LGLL NOTED IN MEDIASTINAL NODES. (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER.344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY IYPE: CHRONIC/2 YR CARCINGENIC
84 DE	CE STA
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS ASSOCIATED WITH NASO-LACRIMAL DUCT.
ADRENAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

Appendix Letterman army institute of research DIV of Res Supp, Path Serv GP Species: Rat/Fischer-344		J (cont.):	≖ ⊢	INDIVIDUAL DATA REPORT GLP83009
ANIMAL MUMBER: 85/PRETEST= DATE OF DEATH: 23-DEC-85 STUDY DAY	•	85 SEX: MALE OF DEATH: 701	:	1
HANE	C G R O S S O R KEYNORDS / PHRASES	ORGAN OB	•	S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS
HEART HEART LIVER SPLEEN SPLEEN KIDNEY PITUITARY GLAND	ADHESION(S) NODULE GRANULAR SURFACE ENLARGED (SPLENG INFARCT(S) DISCOLORATION GROWTH(S) / MASS	S) SURFACE (SPLENOMEGALY) (1) MASS(ES)	PRESENT PRESEN	MULTIPLE, SEROSAL RAISED, .2 X .3CM, WHITE UNEVEN 6 X 2 X 1CM MULTIPLE, VARIABLY SIZED WHITE, MULTIPLE, MINUTE, CORTEX .2CM DIAMETER, WHITE
TISSUE / HISTOPATHOLOGIC FINDINGS	M I C R O S C C	0 7 1 5	S U E	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID				. TISSUE IS MISSING
-CARDIOMYOPATHY -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA,	GRANULAR LYMPHOCYTE LEUKEMIA,	, METASTATIC		NOT SPECIFIED (MODERATE)
LUNGS	PHOCYTE LEUKENIA	, METASTATIC		(PRESENT)
SPLEEN	PHOCYTE LEUKEMIA	, METASTATIC		MULTI-FOCAL(MODERATE) (PRESENT)
LYMPH WODES	ANULAR LYMPHOCYTE LEUKEMIA, PERPLASIA /OR CYSTIC MEDULLARY SINUSE	, METASTATIC ES		REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER	IMMATORY REACTION	N ND/OR CHOLANGIOFIE	ROSIS	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERNAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	INDIVIDUAL AN
STUDY START D	
ANIMAL NUMBER: 85/PRETEST= 85 SEX: MALE DOSE GF DATE OF DEATH: 23-DEC-85 STUDY DAY OF DEATH: 701 STUDY W	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND Study Week of Death: 101 Terminal Body Weight: 334.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERMEPATOCYTIC VACUOLIZATIONMEPATOCYTIC DEGEMERATIVE CHANGES (NON-NECROTIC)MECROSIS, HEPATOCYTIC, INDIVIDUAL CELLSM	MULTI-FOCAL(TRACE) NOT SPECIFIED(MODERATE) HULTI-FOCAL(TRACE) (PRESENT)
KIDMEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
PANCREAS	(PRESENT)
HAMMARY GLANDS	NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS UNILATERAL AND INVOLVES NASO-LACRIMAL Duct. Not specified(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PKESENT)
DIAPHRAGM MISCELLANEOUS TISSUE	MISCELLANEOUS TISSUE

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	VIDUAL ANIMAL DATA REPOSTUDY NUMBER: GLP83009 TE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-84	STUDY TYPE:	PRINTED: 21-NOV-89 PAGE: 178 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
AMINAL NUMBER: 85/PRETEST= DATE OF DEATH: 23-DEC-85 STUDY DAY OF	85 SEX: MALE NY OF DEATH: 701	ALE DOSE (GROUP: 2 WEEK OF DE	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 334.	ATUS: SACRIFIC	85 SEX: MALE DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 701 STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 334.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS TISSUE / HISTOPATHOLOGIC FINDINGS TISSUE / HISTOPATHOLOGIC FINDINGS	0 0 0 0 0	PIC TISSUE	0 8 S E 0 ISTR 181	O B S E R V A T I O N S -> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL COMM	ENTS.
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESE	T 10N		MISCELL/ NOT SPEC	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)		

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

ANIMAL NUMBER: B6/PRETEST= DATE OF DEATH: 16-JAN-86 STUDY DAY C C G R O S ORGAN MAME KEYMORDS / PHRA LIVER ENLARGED LIVER GRANULAR SURFAC LIVER GRANULAR SURFAC FLUVER FRANCE CONTROLL FLUVER FRANCE OF PHRA FERTONEAL CAV. FLUID-FILLED	86 SEX: MALE DF DEATH: 725	OUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND
MAME KEYMORDS / PHR. ADHESION(S) ADHESION(S) ENLARGED GRANULAR SURFA(SMLARGED (SPLE)		STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 395.00 (GMS)
ADHESION(S) ENLARGED GRAWULAR SURFA(ENLARGED (SPLEI) ONEAL CAV. FLUID-FILLED	SES AN OB	T 1 GROS
	CE PRESENT PRESENT NOMEGALY) PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT	B.5 X 2 X 1CM RED, 4ML RED, 4ML BROWN/GREN PITTED SURFACE BILATERAL, MULTIPLE VARIABLY SIZED, WHITE/RED/BLACK
C M I C R O S C TISSUE / HISTOPATHOLOGIC FINDINGS	0 P I C T I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID		TISSUE IS MISSING
HEARTCARDIOMYOPATHY		NOT SPECIFIED(MILD)
LUNGS	A, METASTATIC	(PRESENT) MULTI-FOCAL (PRESENT)
SPLEEN	N, METASTATIC	(PRESENT)
LYMPH NODES	ERYTHROPHAGOCYTOSIS WITHIN	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODES. REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)

(cont.): P	INDIVIDUAL 1 DATA REPORT GLP83009
86 SEX: MALE DEATH: 725	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 395.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
- COMPOUND RELATED INFLAMMATORY REACTION - COMPOUND RELATED INFLAMMATORY REACTION - BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS - CYSTIC DEGENERATION - NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) - NECROSIS, PERIACIMAR - NE CROSIS, PERIACIMAR	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL (PRESENT) NOT SPECIFIED(MODERATE) NOT SPECIFIED(MODERATE) (PRESENT)
FROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD) MOT SPECIFIED (PRESENT)
-FOCUS OF CELLULAR ALTERATION, VACUOLATED -CORTICAL WODULAR HYPERPLASIA -N- LARGE GRAWULE LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) (PRESENT)
PITITARY GLAND	(PRESENT)

	Appendix J		(cont.):	r.):	PATH	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	L ANIM	IL DAT	Κ.
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344 STUDY	OF RESEARCH IV GP		STL	STAR	NDIVIDU STUD DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84	STUE	Y TYPE.	PRINTED: 21-NOV-89 PAGE: 181 STUDY TYPE CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 86/PRETEST= DATE OF DEATH: 16-JAN-86 STUDY DAY OF	86/PRETEST= 86 STUDY DAY	86)F DE	86 SEX: MALE DEATH: 725	MALE 25	DOSE STUDY	DOSE GROUP: 2 Study Week of Deat	SACRIFIC SACRIFIC	SACRIFICE STATUS: SACRIFICED MORIBUND 1: 104 TERMINAL BODY WEIGHT: 395.	SACRIFICE SOY WEIGH	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 395.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	M I C R O S C O OGIC FINDINGS	a 0	3	PIC TISSUE	S C E	O B S DISTRI	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S >>	AL COMME	OBSERVATION (SEVERITY) / SPECIAL COMMENTS
EYES & OPTIC W	TON AND/OR MIN	ERAL	IZATIO	N, SCLER	<	ONLY OF	ONLY ONE EYE IS SU:TABLI Not specified (present)	ABLE FOR HI	\$100010	EVALUATION.
WHOLE BODY	OCYTIC LEUKENI	. <	:			(PRESENT)	•			

IND STUDY START D	DATA REPORT GLP83009
ANIMAL NUMBER: 87/PRETEST# 87 SEX: MALE DOSE GROUP: DATE OF DEATH: 26-SEP-85 STUDY DAY OF DEATH: 613 STUDY WEEK	2 0
**	
SKIN SUBCUTANEOUS MASS PRESENT LIVER ADMESSION(S) PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	LEFT POSTERIOR FOREARM, SOFT, 3CM DIAMETER VENTRAL ABDOMINAL WALL, 1.3CM DIAMETER AREA MULTIPLE, IRREGULAR, BILATERAL, WHITE, .12CM DIAMETER
A MISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPPERPLASIA ("C" CELL, LIGHT CELL)	FOCAL (TRACE)
HEARTCARDIOMYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH WODES	RBC'S AND REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present) Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITNELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -HEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - CLEAR CELLS -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) MULTI-FOCAL(MODERATE)

Appendix J (cont.): PATHOLOGY INDIVIDU	IAL ANIMAL DATA
STUDY STAR	GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 87/PRETEST= 87 SEX: MALE DOSE GROUP: 2 DATE OF DEATH: 613 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 86 TERMINAL BODY WEIGHT: 453.00 (GMS)
AOSCOPIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEY	NOT SPECIFIED(MILD)
TESTES	
SKIN NEUROFIBROSARCOMA, SUBCUTANEOUS, LOCATION TO BE SPECIFIED (PRESENT)	NEUROFIBROSARCOMA IS IN THE SUBCUTANEOUS TISSUE OF THE LEFT Forearm. Present)
NOSE/TURBINATES CELLUI -MIXED INFLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, NOT SI Turbinates, Naso-Lacrinal Ducts	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCT UNITATF''. NOT SPECIFIED(TRACE)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

	Appendix	J (cont.):	INDIVIDUAL	ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 START DATE: 23-JAN-84	PRINTED: 21-NOV-89 PAGE: 184 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 88/ DATE OF DEATH: 09-JAN-86	AMIMAL MUMBER: 66/PRETEST= DATE OF DEATH: 09-JAM-86 STUDY DAY O	88 SEX: MALE OF DEATH: 718	DOSE GROUP: 2 SACRIFICE STATUS: STUDY WEEK OF DEATH: 103 TERMINAL	SACRIFICE STATUS: SACRIFICED MORIBUND 103 TERMINAL BODY WEIGHT: 336.00 (GMS)
ORGAN WANE	ORGAN NAME KEYNORDS / PHRASES	ORGAN OB	A T I O N Y GROSS FR	
	ADHESION(S) ENLARGED GRANULAR SURFACI DISCOLORATION DISCOLORATION DISCOLORATION	ICE ICE INOMEGALY)	PRESENT VENTRAL ABDOMINAL WALL MODERATE PRESENT PRESENT MARKED 6 X 2 X 2CM MARKED 6 X 2 X 2CM PRESENT	VENTRAL ABDOMINAL WALL RED, FOCAL 6 x 2 x 2cm GREEN/BROWN, BILATERAL FOCAL .3 x .2cm, YELLOW, VISCERAL SURFACE OF UPPER LEFT LOBE
TISSUE / MISTOP	C M I C R O S C TISSUE / MISTOPATHOLOGIC FINDINGS	S - L - S - L - C - L - S	SUE OBSERVATIONS >>	SPECIAL COMMENTS
THYROID GLANDS			TISSUE IS MISSING	
PARATHYROID			TISSUE IS MISSING	
HEART	-CARDIOMYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIE		NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)	
LUNGS FOCAL HYPERPLICELLS WITH OR	UNGS	TYPE 2 ALVEOLAR EPITHELIAL ELL INFILTRATION A, METASTATIC	THELIAL NOT SPECIFIED (MODERATE) (PRESENT)	
SPLEEW	PLEEN	A, METASTATIC	(PRESENT)	
LYMPH NODES	YMPH HODES	SES	DILATED SINUSOIDS NOTED IN MES	IN MESENTERIC NODES.
LIVERCOMPOUND RELAI	IVER	NO	NOT SPECIFIED (PRESENT)	

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

TOTALLY : / : 2000) o unully	COL TROIT TOUT WILLIAM DAIR
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
88 SEX: MALE OF DEATH: 718	STA
TISSUE / HISTOPATHOLOGIC FINDINGS	0 8 S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -CYSTIC DEGENERATION -NEPATOCYTIC DEGENERATIVE CHANGES (NON-MECROTIC) -N-LARGE GRANULAR LYMPHOCYTE LEUKENIA, METASTATIC -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED(MODERATE) MULTI-FOCAL(MILD) NOT SPECIFIED (PRESENT) DIFFUSE(MILD) (PRESENT) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLEGENERALIZED ATROPHY	NOT SPECIFIED (PRESENT)
TESTES	MULTI-FOCAL(MILD)
	INFLAMMATION AND NECROSIS IS PRESENT IN MESENTARY OF THE COLON. THIS LESION IS PROBABLY DUE TO THE PRESENCE OF TEST MATERIAL. THE LESION IS CODED UNDER ABDOMINAL CAVITY.
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	

מ	(cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84	NOV-89
86/PRETEST# AN-86 STUDY DAY OF	BB SEX: MALE DEATH: 718	:	_
TISSUE / HISTOPATHOLOGIC FINDINGS		SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	•
WHOLE BODY		(PRESENT)	
ABDOMINAL CAVITY			1 E
-CHRONIC INFLAMMATION DUE TO THE PRESENCE OF TEST COMPOUND (SITE SPECIFIED IN COMMENTS)	E OF TEST COMPOU	COLON. IUND (SITE NOT SPECIFIED (PRESENT)	

Appendix J (cont.): MAN ARMY INSTITUTE OF RESEARCH RES SUPP, PAIN SERV GP S: RAI/FISCHER-344	INDIVIDUAL A DATA REPORT GLP83009
89 SEX: MALE DEATH: 736	AL SACRIFI WEIGHT:
C G R O S S O R G A N O B KEYUDROS / PHRASES	A T I O N S >> GROSS FREE-TEXT COMMENTS
LIVER ADMESION(S) KIDNEY GRANULAR SURFACE MILD TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT PRITUITARY GLAND ENLARGED	VENTRAL ABDOMINAL WALL BILATERAL, 2.5 X 1.5CM BILATERAL, YELLOW AND BLACK .5CM DIAMETER, RED AND BLACK
A MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
MEART	NOT SPECIFIED(MILD)
LYMPH MODES	. REACTIVE HYPERPLASIA, RBC'S, PIGMENT. AND MISTIOCYTES ARE NOTED IN MEDIASTINAL NODE. NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -CYSTIC DEGENERATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE) FOCAL (PRESENT)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MODERATE)
ROSTATE	

Appendix J (cont.): PAT LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE:	SDT.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
ANIMAL MUMBER: 89/PRETEST 89 SEX: MALE DOSE DATE OF DEATH: 27-JAM-86 STUDY DAY OF DEATH: 736 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 428.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	WOT SPECIFIED(MILD)
SEMINAL VESICLEGENERALIZED ATROPHY	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
SKIN	TISSUE IS MISSING
MAMMARY GLANDS TISSUE IS MISSING	TISSUE IS MISSING
ADREMAL	MOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
IN STUDY START	DATA REPORT GLP83009 STUD
23-DEC-85 STUDY DAY OF DEATH: 701	AT A
	T I O N
	RIGHT MULTIPLE, IRREGULAR, WHITE SEROSAL SURFACE, MULTIPLE, NODULAR, WHITE WITH YELLOW CENTER,
KIDMEY DISCOLORATION PRESENT	
IC H.	RIGHT PALE BROWN/YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
HEARTCARDIOMYOPATHY	. NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE) (PRESENT)
THYMUS	TISSUE IS MISSING
SPLEEN	(PRESENT) SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY

INDI STUDY START DA	DATA REPORT GLP83009
LE DOSE G	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 311.00 (GMS)
PIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LYMPH NODES	REACTIVE HYPERPLASIA AND HISTIOCYTIC INFILTRATION NOTED IN CERVICAL NODES. MEDULLARY SINUSES OF MEDIASTINAL NODES ARE GREATLY DILATED AND CONTAIN NUMEROUS HISTIOCYTE. HISTIOCYTIC INFILTRATION IS ALSO PRESENT IN MESENTERIC NODES. NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -CYSTIC DEGENERATION -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -FIBROSIS, PARENCHYMAL (SCARRING)	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (MILD) MULTI-FOCAL(MILD) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
URINARY BLADDER	TISSUE IS MISSING
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)

Appendix J (cont.): PATHOLOGY LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAI DATA REPORT GLP83009
90 SEX: MALE F DEATH: 701	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 311.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	D B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	HULTI-FOCAL(MILD) HULTI-FOCAL(MILD)
STOMACH	 MULTI-FOCAL (PRESENT) NOT SPECIFIED (PRESENT) SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	CELLULAR INFILTRATE IS BILATERAL AND INVOLVES NASO-LACRIMAL DUCTS. NOT SPECIFIED(MILD)
FYES & OPTIC N	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
AD SEBACIOUS	TISSUE IS MISSING
WHOLE BODY	(PRESENT)
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE THE LARGEST TUMOR MASS AND MOST PROBABLE PRIMARY SITE IS IN THE WALL OF THE STOMACH. IN ALL LOCATIONS, THE NEOPLASTIC GROWTHS ARE WELL-DIFFERENTIATED FIBROSARCOMA. (PRESENT)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INSTITUTE OF RES. PATH SERV GP Scher-344	1 7 4 K 3 A K 3 A K 4 K 4 K 4 K 4 K 4 K 4 K 4 K 4 K 4 K		~	STUDY START DATE: 23-JAN-84	VIDUAL ANIMAL Study Number: Te: 23-jan-84			PRINTED: 21-NOV-89 PAGE: 192 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	1: 21-NOV-89 1: 192 CARCINGENI
ANIMAL WUNDER: 91/PRETEST= 90ATE OF DEATH: 29-JAN-86 STUDY DAY OF D	91/PRETE	IT= IDY DAY OF	91 SEX: MALE DEATH: 738	LE	JOSE GROUP: STUDY WEEK	OUP: 2 EEK OF D	JOSE GROUP: 2 SACRIFICE STUDY WEEK OF DEATH: 106 TE	ATC	S: FIMAL SACRIFICE L BODY WEIGHT: 409.00 (GMS)	(GMS)
ORGAN NAME C KEYLORDS / PHRASI	<pre></pre>	GROSS ORG	R C A R	5	S E R V A SEVERITY	T I O N	T 1 0 N S >> GROSS FREE-TEXT COMMENTS	118		
PERITONEAL CAV. LIVER PITUITARY GLAND TESTES EYES & OPTIC M.	GROWTH(S) / M ADNESION(S) DISCOLORATION GROWTH(S) / M LENS CATARACT	GROWTH(S) / MASS(ES) ADHESION(S) DISCOLORATION GROWTH(S) / MASS(ES) LENS CATARACT	(ES)		PRESENT PRESENT PRESENT PRESENT	WITHIN FA 1.5 X 1CM VENTRAL A FOCAL, .2 BILATERAL	WITHIN FATTY TISSUE, YELLOW, FIRM, IRREGULARLY 1.5 X 1CM VENTRAL ABDOMINAL WALL FOCAL, .2CM DIAMETER, BLACK BILATERAL, YELLOW/BLACK, CLEAR RED FLUID FILLED	ELLOW, FIRM, BLACK K, CLEAR RED	WITHIN FATTY TISSUE, YELLOW, FIRM, IRREGULARLY SHAPED 1.5 X 1CM VENTRAL ABDOMINAL WALL FOCAL, .2CM DIAMETER, BLACK BILATERAL, YELLOW/BLACK, CLEAR RED FLUID FILLED. RIGHT	ė.
TISSUE / HISTOPATHOL	C N I C R O TISSUE / HISTOPATHOLOGIC FINDINGS	R O S C O	0 T d	1 1 8 9	SUE	0 B S E	OBSERVATIONS	S >> COMMENTS	COMMENTS	
THYROID GLANDS -PARA-FOLLICULA	HYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C"		כבור, נופאד כבונ)	כפרר)	•	KULTI-F	MULTI-FOCAL(MILD)			
ARATHYROID	PARATHYROID				:	TISSUE	TISSUE IS MISSING			
HEART	EARTCARDIOMYOPATHY	•		•	:	NOT SPE	NOT SPECIFIED(M1LD)			
LUNGS	UNGS	RTERIES				NOT SPE	NOT SPECIFIED(TRACE)			
.YMPH HODES	LYMPH MODES	•	•			REACTIV	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES	OTED IN CERV	ICAL NODES.	
-REACTIVE HYPERPLASIA -DILATED AND/OR CYSTI	-REACTIVE HYPERPLASIA -DILATED AND/OR CYSTIC MEDULLARY SINUSES	RY SINUSES				DILATED NOT SPE NOT SPE	DILATED SINUSES NOTED IN MEDIASTINAL NODE NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	IN MEDIASTIN	AL NODE.	
-COMPOUND RELAT	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS		/OR CHOLANGIOFIBROSIS		\$180	NOT SPE	SPECIFIED (PRESENT) SPECIFIED(MILD)	2		
KIDNEYPROGRESSIVE RE	IDNEYPROGRESSIVE RENAL DISEASE	•			:	NOT SPE	NOT SPECIFIED(TRACE)			
DBACTATE										

(cont.): IND STUDY START D	INDIVIDUAI DATA REPORT GLP83009
91 SEX: MALE DOSE DEATH: 738 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 409.00 (GMS)
CRGSCE / MISTOPATHOLOGIC FINDINGS	w.
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
PANCREAS	NOT SPECIFIED(MILD)
STOMACHSUBMUCOSAL EDEMA	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVĒS NASO-LACRINAL DUCT. Not specified(mild)
ADREWAL	NOT SPECIFIED (PRESENT)
FYES & OPTIC W	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
ABDOMINAL CAVITY	. MISCELLANEOUS TISSUE (PRESENT)

Appendix J (cont.): PATE	PATHOLOGY INDIVIDUAL ANIMAL DATA
TUTE OF RESEARCH N SERV GP -346 STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2
PRETEST 92 SEX: MALE STUDY DAY OF DEATH: 738	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 404.00 (GMS)
A GROSS ORGAN OB	A T I O N S -> GROSS FREE-TEXT COMMENTS
LIVER ADMESION(S) PRESENT PITUITARY GLAND DISCOLORATION PRESENT PITUITARY GLAND EMLARGED TRACE TESTES GROWTH(S) / MASS(ES) PRESENT	VENTRAL ABDOMINAL WALL FOCAL, .3CM DIAMETER, DARK RED BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPPERPLASIA ("C" CELL, LIGHT CELL)	. MULTI-FOCAL(MILD)
EXORBITAL LACRIM	. TISSUE IS MISSING
HEART	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
-PREUMONIA, INTERSTITIAL, CHRONIC	FOCAL (TRACE)
LIVERCOMPOUND RELATED INFLAMMATORY REACTIONBILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSISMEPATITISNEPATOCYTIC VACUOLIZATIONCYSTIC DEGENERATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT)
FIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	:

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84
ANIMAL MUMBER: 92/PRETEST 92 SEX: MALE DOSE GR DATE OF DEATH: 29-JAN-86 STUDY DAY OF DEATH: 738 STUDY W	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 404.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED (MODERATE)
TESTES	(PRESENT)
PANCREASACIMAR (EXOCRIME) ATROPHY -B- ISLET CELL ADENOMA	MUL11-FOCAL(MILD) (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT. Not specified(MILD)
ADREMAL	WOT SPECIFIED(TRACE)
PITUITARY GLAFD	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

	93 SEX: MALE DOSE GROUP: 2 DEATH: 738 STUDY WEEK OF R G A N O B S E R V A T I O S SEVERITY GROSS	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: 397.00 (GMS)
NAME KEYWORDS / PHRASES KEYWORDS / PHRASES EPIDERHAL "HORN" ADHESION(S) GROWIN(S) / MASS(ES)	N OBSERV SEVERITY	
EPIDERMAL "MORM" ADNESION(S) GROWIN(S) / MASS(ES)		
:	PRESENT	.SCM DIAMETER, MID-DORSAL BACK VENTRAL ABDOMINAL WALL BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
COPIC TISSUE / HISTOPATHOLOGIC FINDINGS	C TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS		(PRESENT)
HEARTCARDIOHYOPATHY		NOT SPECIFIED(MILD)
-BILL CIULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCU, OF CELLULAR ALTERATION - BASOPHILIC -FIBROSIS CAPSULAR NO COMPOUND - NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS	CHOLANGIOFIBROSIS	NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD)
FIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(MILD)
PROSTATE		NOT SPECIFIED(MILD)
SEMINAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES		(PRESENT)

Appendix J (cont.): Pl	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 93/PRETEST# 93 SEX: MALE DO: Date of Death: 29-Jan-86 Study day of Death: 738 STU	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 397.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	FOCAL (TRACE)
SKINB- SQUAMOUS PAPILLOMA	
MAMMARY GLANDS	NOT SPECIFIED(MARKED)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC W	NOT SPECIFIED (PRESENT)

STUDY START DATE: 23-JAN-84 STUDY MUMBER: GLP83009 STUDY MUMBER: GLP83009 94 SEX: MALE 00SE GROUP: 2 SACRIFICE STATU OR G A N O B SE R V A T I O N S >> PRESENT VENTRAL ABDOMINAL VALL PRESENT VENTRAL ABDOMINAL VALL PRESENT VENTRAL ABDOMINAL VALL PRESENT VENTRAL ABDOMINAL VALL I S S U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERTITY) / SI PRESENT MULTIPLE, VARIABLY SIZED, Y PRESENT FINDING IS INTERPRETED (PRESENT) (PR	Appendix J (cont.): PATE	PATHOLOGY INDIVIDUAL ANIMAL DATA
DEATH: 29-JAN-86	ESEARCH INDI	DATA REPORT GLP83009 STUDY TYPE: CHRONIC
AME ** G R O S S O R G A N O B S E R V A ** KEYWORDS / PHRASES ** ADHESION(S) ** DAHESION(S) ** DAHESION(S) ** ADHESION(S) ** ADHESENT ** PRESENT ** PRES	PRETEST 94 SEX: MALE D STUDY DAY OF DEATH: 738 S	FICE STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT: 3
ADHESION(S) DISCOLORATION ENLANGED GROWTH(S) / MASS(ES) PRESENT ENLANGED A I C R O S C O P I C T I S S U E A I C R R I C R I S I S I S I S I S I S I S I S I S I	C G R O S S O R G A M O B S E KEYWORDS / PHRASES SEV	T 1 0
ENLARGED GROWTH(S) / MASS(ES) PRESENT GROWTH(S) / MASS(ES) PRESENT CAL M I C R O S C O P I C T I S S U E / HISTOPATHOLOGIC FINDINGS RA-FOLLICULAR CELL ADENOMA IONYOPATHY IL HYPERTROPHY OF MUSCULAR ARTERIES INCH HYPERTROPHY OF MUSCULAR ARTERIES INCH HYPERTROPHY OF MUSCULAR ARTERIES INCH HYPERPLASIA DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS ITIS OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OCYTIC VACUOLIZATION OF CELLULAR ALTERATION - CLEAR CELLS	ADHESION(S) DISCOLORATION	
E / HISTOPATHOLOGIC FINDINGS ID GLANDS PARA-FOLLICULAR CELL ADENOMA IAL HYPERTROPHY OF MUSCULAR ARTERIES WADES CTIVE HYPERPLASIA POUND RELATED INFLAMMATORY REACTION POUND RELATED INFLAMMATORY REACTION ATTIS ATTIC ATTIS ATT	ENLARGED GROWTH(S) / MASS(ES)	BILATERAL, 2.5 X 1.5CM MULTIPLE, VARIABLY SIZED, YELLOW/BLACK
ID GLAMDS PARA-FOLLICULAR CELL ADENOMA DIONYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIES ERALIZATION OF PULMONARY ARTERIES CITUVE HYPERPLASIA POUND RELATED INFLAMMATORY REACTION ATTILS	8 1 1 2 1 8 0 2 8 0	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ID GLAMDS PARA-FOLLICULAR CELL ADENOMA DIOMYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIES RALIZATION OF PULMONARY ARTERIES TIVE HYPERPLASIA POUND RELATED INFLAMMATORY REACTION ATTIS ATTOR ATT		A SWALL FRAGMENT OF ESSENTIALLY TISSUE IS SITUATED WITHIN BRAIN THIS FINDING IS INTERPRETED AS A
DIONYOPATHY JAL HYPERTROPHY OF MUSCULAR ARTERIES ERALIZATION OF PULMONARY ARTERIES CTIVE HYPERPLASIA POUND RELATED INFLAMMATORY REACTION ATITIS ATITIS ATITIS JS OF CELLULAR ALTERATION - CLEAR CELLS	ICULAR CELL ADENOMA	
MODES WODES CIIVE HYPERPLASIA POUND RELATED INFLAMMATORY REACTION E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS ATTOCYTIC VACUOLIZATION US OF CELLULAR ALTERATION - CLEAR CELLS	DIONYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
MODES CTIVE HYPERPLASIA POUND RELATED INFLAMMATORY REACTION FOUND RELATED INFLAMMATORY REACTION ATTIS ATTIS ATTORITY VACUOLIZATION US OF CELLULAR ALTERATION - CLEAR CELLS	ERALIZATION OF PULMONARY ARTERIES	
POUND RELATED INFLAMMATORY REACTION E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT ATTITS ATTITS ATOCYTIC VACUOLIZATION US OF CELLULAR ALTERATION - CLEAR CELLS	HYPERPLASIA	
	POUND RELATED INFLAMMATORY REACTION E DUCTULE EPITHELIAL HYPERPLASIA AN ATITIS ATOCYTIC VACUOLIZATION US OF CELLULAR ALTERATION - CLEAR CI	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(MICD) NOT SPECIFIED(MICD)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
INSTITUTE OF RESEARCH , PATH SERV GP SCHER-344 SCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 94/PRETEST= 94 SEX: MALE DOSE OATE OF DEATH: 29-JAN-86 STUDY DAY OF DEATH: 736 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 367.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE RENAL DISEASE	. NOT SPECIFIED(MODERATE)
PROSTATE	. NOT SPECIFIED(TRACE)
SEMINAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTESB. INTERSTITIAL CELL ADEMONA	(PRESENT)
PANCREAS	NOT SPECIFIED(TRACE) FOCAL(MILD)
MAMMARY GLANDS	. NOT SPECIFIED(TRACE)
MOSE/TURBINATES	CELLULAR INFILTRATE NOTED ADJACENT TO NASO-LACRIMAL DUCT. NOT SPECIFIED(TRACE)

(cont.):	INDIVIDUAL DATA REPORT GLP83009
95 SEX: MALE DEATH: 641	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 92 TERMINAL BODY WEIGHT: 474.00 (GMS)
KEYMORDS / PHRASES KEYMORDS / PHRASES ENLARGED (SPLENOMEGALY) HODER/TRANSPARENT, SOFT, FLACTID PRESE	6 X 1.5 X 1.
PERITONEAL CAV. GROWIN(S) / MASS(ES) PERITONEAL CAV. GROWIN(S) / MASS(ES) PRESENT PRES	NEU, FIRM, .3 A . ICM, IN MESENIERT NEAR SIGNACH O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	. (PRESENT)
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
LUNGS	. (PRESENT)
SPLEEN	NOT SPECIFIED(TRACE) (PRESENT)
LYMPH NODES	. (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -CYSTIC DEGENERATION -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS	WOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT) DIFFUSE(MILD) MULTI-FOCAL(TRACE)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL AN DATA REPORT GLP83009
95/PRETEST= 95 SEX: MALE -85 STUDY DAY OF DEATH: 641	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 92 TERMINAL BODY WEIGHT: 474.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S VV DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	. FOCAL(TRACE) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	. NOT SPECIFIED(TRACE)
PROSTATE	WOT SPECIFIED(MILD)
TESTES	(PRESENT)
PANCREASATROPHY -ASINAR (EXOCRIME) ATROPHY -B- ISLET CELL ADENOMA	. THE MASS IN THE MESENTARY ADJACENT TO THE DUODENUM IS AN ISLET CELL ADENOMA OF THE PANCREAS. MOT SPECIFIED(TRACE) (PRESENT)
MOSE/TURBINATES	TISSUE IS MISSING
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESERT)

Appendix	(cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	= =	DATA REPORT GLP83009 STUDY TYPE: CHRON
•	HALE 738	UP: 2 SACRIFICE STATUS: EK OF DEATH: 106 TERMINAL
< GROSS ORRACI		A T I O N Y GROSS F
LIVER ADMESTON(S) THYROID ENLARGED		PRESENT VENTRAL ABDOMINAL WALL PRESENT .8 X .5CM, MOTTLED RED, LEFT2MM DIAMETER, MOTTLED
ADREMAL ENLARGED, UNILATEI TESTES GROWTH(S) / MASS(I KIDNET GRAWULAR SURFACE	ERALLY PR (ES) PR	PRESENT RIGHT, .5CM DIAMETER Present bilateral, variably sized, yellow/black Present bilateral
TISSUE / HISTOPATHOLOGIC FINDINGS)	U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS		(PRESENT)
HEART		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS		NOT SPECIFIED(TRACE)
SPLEEN		FOCAL(TRACE) NOT SPECIFIED (PRESENT)
LYMPH NODES		REACTIVE HYPERPLASIA INVOLVES CERVICAL NODES.
LIVER	D/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) SIS NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE)

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

STUDY STAR	DATA REPORT GLP83009 STUDY TYPE: CHRO
6 SEX: MALE EATH: 738	SACRIFICE STATUS: FINAL SACRIFICE DEATH: 106 TERMINAL BODY WEIGHT: 346.00 (GMS)
<pre><</pre>	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
SKELETAL MUSCLE	TISSUE IS MISSING
SCIATIC MERVE	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
ADRENAL	(PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC W	MOT SPECIFIED (PRESENT)

APE LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	Appendix . LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	J (cont.):): PATROLOGY INDIVIDUAL ANIMAL STUDY NUMBER: START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHRONI	PRINTED: 21-NOV-89 PAGE: 204 C/2 YR CARCINGENIG
ANIMAL NUMBER: 97/	ANIMAL MUNGER: 97/PRETEST= Date of Death: 29-Jan-86 Study Day of	97 SEX: MALE OF DEATH: 738	DOSE GROUP: 2 STUDY WEEK OF	SACRIFICE STATUS: FINAL SACRIFICE DEATH: 106 TERMINAL BODY WEIGHT:	393.00 (GMS)
ORGAN NAME	C C S S O R KEYUORDS / PHRASES	ORGAN OB ASES	S E R V A T SEVERITY GR	S E R V A T I O M S ->> SEVERITY GROSS FREE-TEXT COMMENTS	
LIVER PITUITARY GLAND TESTES TESTES	ADMESTON(S) DISCOLORATION ATROPHIC / SMALL, UN ENLARGED GROUTH(S) / MASS(ES)	ADHESION(S) ATROPHIC / SMALL, UNILATERALLY ATROPHIC / SMALL, UNILATERALLY ENLARGED GROWTH(S) / MASS(ES)	PRESENT PRESENT PRESENT PRESENT PRESENT	VENTRAL ABDOMINAL WALL LOCAL, .1CM DIAMETER, BLACK LEFT, 1.5 x 1CM 2.5 x 1.75CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW	
TISSUE / HISTOPATROLOGIC FIRDINGS	* N C R O S C O ROLOGIC FINDINGS	0 7 1 6	SUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
THYROID GLANDS . -FOLLICULAR HYPE -PARA-FOLLICULAR	MYROID GLAMDS	" CELL, LIGHT CELL)		NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE)	
HEART	EARTCARDIOMYOPATHY			NOT SPECIFIED(MODERATE)	
LUNGS	UNGS			NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)	
LYMPH NODESRED BLOOD CEELS MEDULLARY SINUS	NODES	ERYTHROPHAGOCYTOSIS	:	MEMOSIDERIN PIGMENT IS PRESENT IN MEDIASTINAL N Not specified (present)	NODE.
-COMPOUND RELATED INFLAMMATORY -BILE DUCTULE EPITHELIAL HYPER -REPATOCYTIC VACUOLIZATION -TELANGIECTASIS -CYSTIC DEGENERATION -BENIGN HYPERPLASTIC NODULE(S)	-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL -BEPATOCYTIC VACUOLIZATION -TELANGIECTASIS -CYSTIC DEGENERATION -BENIGN HYPERPLASIC NODULE(S)	ON AND/OR CHOLANGIOFIBROSIS		NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	

Appendix J (cont.): PATHOLOGY LETTERHAH ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	ATROLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 TE: 23-JAN-84
97 SEX: MALE DEATH: 738	SACRIFI DEATH: 106
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	MULTI-FOCAL(MODERATE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
EDIDIDYMIS	TISSUE IS MISSING
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS BILATERALLY. Not specified(mild)
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N.	

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
Appendix J

- 89 ENIC		
INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	ANIMAL NUMBER: 97/PRETEST 97 SEX: MALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DATE OF DEATH: 29-JAN-86 STUDY OF DEATH: 736 STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 393.00 (GMS)	
INTED: 21-N PAGE: 206 2 YR CARCIN	00.5	
PRI ONIC/2	1 CE 393	
C	SACRIF IGHT:	AMENTS
Y TYPI	INAL DY VE	AL CO!
STUG	TUS: F	SPECI
	SACRIFICE STATUS: FINAL SACRIFICE 106 TERMINAL BODY WEIGHT:	N S III
PORT	CR 1 F 1	T I O
ATA RI	S. PATA:	R V A
INDIVIDUAL ANIMAL DATA REPORT Study Mumber: Glp83009 T Date: 23-Jan-84	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 393.00 (GMS)	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
JAL AN DY KUH 23-JA	DOSE GROUP: 2 STUDY WEEK OF D	02:
INDIVIDUAL ANIMAL STUDY WUMBER: STUDY START DATE: 23-JAN-64	DOSE STUD	ш Э
START	w	S -
TUDY	738	-
	97 SEX: MALE DEATH: 738	PIC TISSUE
=	LY OF	0 0 9
SEARCI	81- UDT D/	0 S :
P. CP. R.	97/PRETEST= 86 STUDY	<pre><< M I C R O S C O OGIC FINDINGS</pre>
TITUTE ATH SE ER-344	97 JAN-86	** 0L061C
PP, P	. 29-	OPATH
AN ARP RES SL : RAT/	MUKBER	/ HIST
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 97/PRETEST** Date of Death: 29-Jan-86 Study Day of	TISSUE / HISTOPATHOLOGIC FINDINGS
158 C	7	= ;

NOT SPECIFIED (TRACE)
NOT SPECIFIED (PRESENT)

App. LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	Appendix Letternan army institute of research Div of res supp, path serv GP species: rat/fischer-344	J (cont.):	5 \$ 2 3
ANIMAL NUMBER: DATE OF DEATH:	ANIMAL NUMBER: 98/PRETEST= DATE OF DEATH: 29-JAM-86 STUDY DAY OF	98 SEX: DEATH:	DOSE GROUP: 2 SACRIFICE STA STUDY WEEK OF DEATH: 106 TERMI
ORGAN NAME	C G R O S S O R G A N ORGAN NAME KEYWORDS / PHRASES	O R G A W O B	A T I O
PERITONEAL CAV.	GROWTH(S) / MASS(ES)	ASS(ES)	PRESENT BROWN CAULIFLOWER, INVOLVES OMENTUM AND BILATERALLY
TESTES TESTES Liver	ENLARGED Growth(s) / M Adhesion(s)	MASS(ES)	INVOLVES IESTES AND SCROIAL SACS PRESENT BILATERAL, 2.5 X 1.5CM PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK PRESENT VENTRAL ABDOMINAL WALL
TISSUE / HISTOPA	A H I C R O S THOLOGIC FINDINGS	0 9 1 0 1 1 8	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS -B- PARA-FOLLI	HYROID GLANDS		(PRESENT)
SALIVARY GLAND -ATROPHY AND L	OSS OF ACINAR TISSUE		FOCAL ACINAR ATROPHY IS PRESENT IN PAROTID GLAND. FOCAL (TRACE)
HEART	EARTCARDIONYOPATHY		NOT SPECIFIED(MODERATE)
LUNGS	UNGS	S	NOT SPECIFIED(TRACE)
SPLEEN	PLEEN		SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
-COMPOUND RELA- BILE DUCTULE - MEPATITIS -	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -WEPATITIS -BENIGN HYPERPLASIC NODULE(S)	ION AND/OR CHOLANGIOFIBROSIS	ROSIS NOT SPECIFIED (PRESENT) ROSIS NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(TRACE)
KIDNEY	IDMEY		NOT SPECIFIED(MILD)
PROSTATE			

Appendix J	(cont.):	Pathology individual animal data
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	IND! STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: CHROMIC/2 YR CARCINGGE
ANIMAL NUMBER: 98/PRETEST# DATE OF DEATH: 29-JAN-86 STUDY DAY OF	98 SEX: MALE DEATH: 738	GROUP: 2 SACRIFI Y WEEK OF DEATH: 106
•		O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE		NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES -B- INTERSTITIAL CELL ADENONA -N- PRESENCE OF METASTATIC MEOPLASM		(PRESENT) SECONDARY NEOPLASM FROM ORGAN
PANCREAS		NOT SPECIFIED(TRACE) (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
MAMMARY GLANDS	ACIWAR TISSUE	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
MOSE 'TURBINATES	MASAL CAVITY, SINUSES,	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS. Not specified(trace)
BONE, STERNUM		MULTI-FOCAL (PRESENT)
BONE, FEMUR		MULTI-FOCAL (PRESENT)
PITUITARY GLAND		(PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC X		

Appendix	ם	<u>0</u> 00)	(cont.):		PA	PATHOLOGY INDIVIDUAL ANIMAL DATA	INI	DIVID	JAL	ANIMA	i D	ATA			
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES JUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		v	ruov		STI STE DATE	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-Jan-84	6 P	1 REPORT 13009		STUC	Y TYP	E: CHRC	PRIN P NIC/2	INTED: 21-1 PAGE: 209 2 YR CARCII	PRINTED: 21-NDV-89 PAGE: 209 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 98/PRETESTS DATE OF DEATH: 29-JAN-86 STUDY DAY OF		98 SEX: MALE DEATH: 738	. HAL 738	ш.	DOS STUI	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 372.00 (GMS)	2 F DEATH	SACRIFICE STATUS: FINAL SACRIFICE H: 106 TERMINAL BODY WEIGHT:	ICE ST TERM	ATUS: 1	INAL	SACRIFI GNT:	CE 372.	9) 00	SACRIFICE STATUS: FINAL SACRIFICE TH: 106 TERMINAL BODY WEIGHT: 372.00 (GMS)
TISSUL / MISTOPATHOLOGIC FINDINGS		PIC TISSUE	-	ر د	S C E	• • •	S E R V	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ONS RITY)	, speci	V CO	AMENTS		•	•
EYES & OPTIC N	NER/	IL I ZAT	, NO	SCLER			SPECIFI	NOT SPECIFIED (PRESENT)	SENT)						
ABDOMINAL CAVITY			:			MISCELLAI (PRESENT)	ELLANEO Ent)	US TISS	UE						
-COMPOUND RELATED 7 6 LAMMATORY REACTION			•	:		MISCELLANEOUS TISSUE	ELLANEO	MISCELLANEOUS TISSUE	UE						

LETTERMAN ARMY INSTITUTE OF RIDIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH STUDY START	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84
ANIMAL NUMBER: 99/ DATE OF DEATH: 27-JAN-86	PRETERT 99 SEX: MALE STUDY DAY OF DEATH: 736	. 0
ORGAN NAME	PERASES A N O SS	T I O
THYROLD PERITOMEAL CAV. LIVER SPLEEM KIDNEY TESTES	ENLARGED FLUID-FILLED PRESENT FLUID-FILLED PRESENT ADMESION(S) ENLARGED (SPLENOMEGALY) GRANULAR SURFACE NECROSIS ATROPHIC / MASS(ES) PRESENT GROWTH(S) / MASS(ES)	LEFT, DARK RED, .4CM DIAMETER ZML, RED VENTRAL ABDOMINAL WALL AND SMALL INTESTINE 6.5 x 1.75CM 3CM LENGTH AT DISTAL END DRY, BLACK AND ATROPHIED 1.5 x 1CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW AND BLACK
TISSUE / MISTOPA	<pre><< M 1 C R O S C O P 1 C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS</pre>	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	MYROID GLANDS	(PRESENT)
HEART	EARTCARDIOMYOPATHY	. NOT SPECIFIED(MILD)
THYNUS	NISSING 1 118SUE 1 118SUE 18 MISSING	. TISSUE IS MISSING
SPLEEN	PLEEN CHRONIC -INFARCTION, CHRONIC -EXTRAMEDULLARY HEMATOPOIESIS	FOCAL(TRACE) NOT SPECIFIED (PRESENT)
-COMPOUND RELATED IN-COMPOUND RELATED IN-BILE DUCTULE EPITHE -WECROSIS -CYSTIC DEGEMERATION	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -WECROSIS -CYSTIC DEGEWERATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MODERATE) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	AL ANIMAL DATA
STUDY STAR	GLP83009
9/PRETEST= 99 SEX: MALE 6 STUDY DAY OF DEATH: 736	SACRIFICE STATU DEATH: 106 TERMINA
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEY	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTESB- INTERSTITIAL CELL ADENOMA	(PRESENT)
SKIM	SECTION #21 IS FROM THE TAIL LESION AND CONSISTS OF NECROTIC EPIDERMIS AND MINIMAL INFLAMMATION. FROM GROSS DESCRIPTION AND MICROSCOPIC APPEARANCE INFARCTION AND NECROSIS OF THE DISTAL END NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
endix J
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	Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA	
LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	OF RESEARCH RV GP STUDY STAR	AL DATA REPORT R: GLP83009 84	PRINTED: 03-JAN-90 PAGE: 1 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: DATE OF DEATH: 30-AUG-85		DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 411.00 (GM	18UND 411.00 (GMS)
: : : :	C G R O S S O R G A N O B KEYWORDS / PHRASES	S E R V A T SEVERITY GR	
	PROMINENT LOBULAR MARKINGS ADHESION(S) DISCOLORATION STAINED HAIR	PRESENT PRESENT PRESENT VENTRAL ABDOMINAL WALL AND DIAPHRAGM PRESENT YELLOW MOTTLING PRESENT YELLOW, WATERY FECAL MATERIAL	
WHOLE BODY Spieen Spieen Kidney	FAT GENERALLY VELLOW ENLARGED (SPLENOMEGALY) FRACTURED ISCOLORATION	PRESENT MODERATE 6 X 2 X 1CM PRESENT MESENTERIC SURFACE, SURROUNDED BY CLOTTING PRESENT DIFFUSELY BROWN	
TISSUE / HISTOPATHOLOGIC FINDINGS	S C O P I C T I S	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
HEART		NOT SPECIFIED(MILD)	
LUNGS	UNGS	NOT SPECIFIED (TRACE) (PRESENT)	
SPLEEN	PLEEN		
LYMPH NODES	YMPH MODES	RBC'S, PIGMENT, DILATED SINUSOIDS, AND REACTIVE HYPERPLASIA NOTED IN MEDIASTINAL AND MESENTERIC NODES. S WITHIN NOT SPECIFIED (PRESENT)	IVE HYPERPLASIA
MEDULLARY SINUSES -REACTIVE HYPERPLASIA -DILATED AND/OR CYSTI	MEDULLARY SINUSES -REACTIVE HYPERPLASIA -DILATED AND/OR CYSTIC MEDULLARY SINUSES	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	
LIVER	IVERCOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)	

Appendix J (cont.): PATRO	PATHOLOGY INDIVIDUAL ANIMAL DATA
CH STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
: 100/PRETEST= 100 SEX: MALE : 30-AUG-85 STUDY DAY OF DEATH: 586	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 411.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED(MODERATE) MULTI-FOCAL(MODERATE) NOT SPECIFIED(MODERATE) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE NEAR NASO-LACRIMAL DUCT. Not specified(trace)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
TUTE OF RESEARCH H SERV GP -344 STUDY START DA	DATA REPORT GLP83009
101 SEX: MALE DEATH: 739	2 SACRIFICE STATUS: FINAL SACRIFICE OF DEATH: 106 TERMINAL BODY WEIGHT:
C G B O S S O B G A M O B KEYWORDS / PWRASES	T I O N S >> GROSS FREE-TEXT
TESTES GROUTH(S) / MASS(ES) PRESENT	RIGHT, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
PARATHYROID	TISSUE IS MISSING
EXORBITAL LACRIM	TISSUE IS MISSING
HEART	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH NODES	RBC'S AND PIGMENT KOTED IN MEDIASTINAL NODE. Not specified (present)
LIVER	NOT SPECIFIED(MILD) Multi-focal(Trace)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
SEMINAL VESICLE	

: J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
101/PRETEST= 101 SEX: MALE -JAN-86 STUDY DAY OF DEATH: 739	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 356.00 (GMS)
TISSUE / MISTOPATNOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT.

APP. LETTERNAN ARMY INSTITUTE OF R. DIV OF RES SUPP. PATH SERV GP. SPECIES: RAT/FISCHER-344	Appendix LETTERNAN ARNY INSTITUTE OF RESEARCH SPECIES: RAT/FISCHER-344	(cont.):	INDIVIDUAL ANI DATA REPORT GLP83009
ANIMAL NUMBER: 102, DATE OF DEATH: 30-JAN-86	. .	HALE 39	. • •
ORGAN NAME	: -	8	<
LIVER TESTES TESTES PITUITARY GLAND	ADHESION(S) ENLARGED GROWIN(S) / MAS	MASS(ES) PRESENT PRESENT PRESENT	T DIAPHRAGM, VENTRAL ABDOMINAL WALL T DIAPHRAGM, VENTRAL ABDOMINAL WALL T RIGHT, 2.5 X 1.75CM T BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK T SCM DIAMETER, DARK RED MOTTLED
TISSUE / MISTOP	<pre></pre>	1 1 S S U E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS PARA-FOLLICULAR - COLLOID CYST(S)	CELL HYPERPLASIA (*	C" CELL, LIGHT CELL)	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
HEART	EARTCARDIOHYOPATHY		NOT SPECIFIED(TRACE)
LIVER	1VER	ON AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(TRACE)
RIDNEY	ENAL DISEASE		NOT SPECIFIED(MILD)
PROSTATE	PROSTATITIS YPERPLASIA		NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE)
TESTES	ESTES		, 100000

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP., PATH SERV GP SPECIES: RAT/FISCHER-344 STEDDY START DATE: 23-JAN-84	PATBOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-84 STUDY IYPE: CHRONIC/2 YR CARCINOGENIC
102 SEX: MALE F DEATH: 739	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 397.00 (GMS)
SUE	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SCIATIC NERVE	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
EAR	THE PITUITARY TUMOR IS LOCATED WITHIN THE CRANIAL CAVITY ADJACENT TO THE INNER EAR NEAR THE ORIGIN OF THE ACOUSTIC NERVE. IN SECTIONS EXAMINED IT DOES NOT ERODE THE BOME NOR DOES IT ACTUALLY INVADE INNER EAR STRUCTURES.
DIAPHRAGM	MISCELLANEOUS TISSUE

LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL STUDY N T DATE: 23-	ANIMAL DATA REPORTIUMBER: GLP83009 Jan-84	STUDY TYPE: (PRINTED: 21-NOV-89 PAGE: 218 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUNSER: 103/PRETEST DATE OF DEATH: 30-JAN-86 STUDY	103/PRETEST= 0-JAN-86 STUDY DAY OF	103 SEX: MALE Of DEATH: 739	DOSE GRO STUDY WE	DOSE GROUP: 2 SACRIFICE S STUDY WEEK OF DEATH: 106 TER	SACRIFICE STATUS: FINAL SACRIFICE: 106 TERMINAL BODY WEIGHT:	. M
ORGAN MANE	ORGAN NAME KEYWORDS / PHRASES	O R G A N O SS	< ▶ .	-3:	SLZ	
LIVER TESTES TESTES JEJUNUM	ADMESION(S) ATROPHIC / SMALL GROWTH(S) / MASS DIVERTICULUM	LL, UNILATERALLY SS(ES)	PRESENT PRESENT PRESENT	VENTRAL ABDOMINAL WALL RIGHT, 1.5 X 1CM Bilateral, Multiple Variably Sized, Yellow/black 4 X 3cm, Thick Walled	L ARIABLY SIZED, YELI	LOW/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	S	P 1 C T 1 S	S U E	O B S E R V A T I O N S DISTRIBUTION (SEVERITY)	S >> Y) / SPECIAL COMMENTS	SIX
THYROID GLANDS PARA-FOLLICULAR	HYROID GLAADS -PARA-FOLLICULAR CELL HYPERPLASIA ("C"	" CELL, LIGHT CELL)	•	NOT SPECIFIED(TRACE)		
HEART				NOT SPECIFIED (MODERATE)	E)	
SPLEEN	PLEEN			NOT SPECIFIED(TRACE)		
LYMPH WODES	LASIA			REACTIVE HYPERPLASIA IS NOTED IN CERVICAL, MEDIASTINAL AND Mesenteric nodes. Not specified (present)	IS NOTED IN CERVICATION IS	AL, MEDIASTINAL AND
-COMPOUND RELATED INFLAMMATORY-BILE DUCTULE EPITHELIAL HYPER-HEPATOCYTIC VACUOLIZATION-CYSTIC DEGENERATION-BENIGM HYPERPLASTIC NODULE(S)	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -CYSTIC DEGEMERATION -BENIGM HYPERPLASITIC NODULE(S)	ON AND/OR CHOLANGIOFIBROSIS	•	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	5 0 5	
KIDNEY	IDMEYPROGRESSIVE REMAIL DISEASE			NOT SPECIFIED(MODERATE)	E	

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INDIVIDUAL
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Appardix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
TUTE OF RESEARCH H SERV GP -344 STUDY STAR	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/
3/PRETEST 103 SEX: MALE 6 STUDY DAY OF DEATH: 739	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 358.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
JEJURUM	GROSSLY AS A DIVERTICULUM. THERE IS ULCERATION, NECROIS AND INFLAMMATION THROUGHOUT THE ENTIRE THICKNESS OF THE INTESTINAL WALL. THERE IS CONSIDERABLE DILATION OF THE INTESTINAL WALL. THERE IS CONSIDERABLE DILATION OF THE INTESTINAL LUMEN POSSIBLY BECAUSE OF COMPROMISE OF INNERVATION OR BECAUSE OF THE INTERMATION. THE INITIATING CAUSE OF THIS LESION IS NOT APPARENT IN SECTIONS
-ACUTE PERITONITIS -ENTERITIS, SUBACUTE -MUCOSAL EROSION/ULCERATION -FIBROVASCULAR ADHESION,SEROSA	EXAMINED. NOT SPECIFIED(MARKED) NOT SPECIFIED(MARKED) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
PANCREAS	(PRESENT)
CECUM	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (PRESENT)

Appendix J (cont.): P	PATROLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCNER-344 SPECIES: RAT/FISCNER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
103 SEX: MALE D F DEATH: 739 S	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 358.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OPIC TISSUE OBSERVATIONS >>> OPIC TISSUE OBSERVATION (SEVERITY) / SPECIAL COMMENTS
MOSE/TURBINATES	
ADREMAL	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

ANIMAL DATA
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INDIVIDUAL
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Appendix

Y TOTT BAILE	. ()	PRINCESON THE TOTAL PRINCES
TUTE H SE -344		INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 104/PRETEST= 1 DATE OF DEATH: 30-JAN-86 STUDY DAY OF	ETEST 104 SEX: MALE STUDY DAY OF DEATH: 739	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 352.00 (GMS)
· · · · · · · · · · · · · · · · · · ·	8 O Z V U	.
TESTES GROWTH(S) / MASS(E MANMARY GLAND PROMINENT FILLITARY GLAND ENLARGED WILATER ADRENAL ENLARGED, UNILATER LIVER ENLARGED (SPLENOME SPLEEN	S) ALLY GALY)	PRESENT LEFT, MULTIPLE VARIABLY SIZED, YELLOW/BLACK PRESENT AXILLARY REGION, BILATERAL, YELLOW PRESENT DARK RED, "5CM DIAMETER PRESENT BILATERAL PRESENT SCM DIAMETER PRESENT SCM MEDIAL AND LEFT LATERAL LOBES MARKED 7 X 2 CM
<pre><</pre>	S C O P I C T I S S C E	JE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	("C" CELL, LIGHT CELL)	NOT SPECIFIED (TRACE)
-CARDIONYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	RTERIES	ONE FAIRLY LARGE FOCAL AREA OF FIBROSIS IS PRESENT IN THE LEFT VENTRICLE. THIS MAY BE A HEALED INFARCT. IT IS PROBABLY ONE OF THE MANY MANIFESTATIONS OF THE CARDIOMYOPATH; THAT IS COMMON IN THE FISCHER 344 STRAIN OF RAT. NOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD)
LUNGS	KEMIA, HETASTATIC	(PRESENT)
THYMUS		TISSUE IS MISSING NO THYMIC TISSUE WAS PRESENT IN THE MEDIASTINAL TISSUE SUBMITTED FOR HISTOLOGIC EXAMINATION.
SPLEEN	CEMIA, METASTATIC	FOCAL(TRACE) (PRESENT)

LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL ANIMAL OF DESCRIPTION OF D	INDIVIDUAL ANIMAL DATA DATA REPORT
STUDY START D ESTS 104 SEX: MALE	STUDY TYPE: CHRONI SACRIFICE STATUS: FINAL SACRIFICE
MICROSCOPIC TISS FINDINGS	U E DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LYMPH MODES	REACTIVE HYPERPLASIA IS NO MEDIASTINAL NODE IS ALMOST NEOPLASTIC LYMPHOCYTES (LG ARCHITECTURE REMAINS INTAC (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	NOT SPECIFIED(MARKED) (Present)
STOMACH	

Appendix J (cont.): PATHOLOGY LETTERHAN ARMY INSTITUTE OF RESEARCH DIY OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL DATA REPORT GLP83009
4/PRETEST 104 SEX: MALE 6 STUDY DAY OF DEATH: 739	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 352.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / ECIAL COMMENTS
STOMACHBMUCOSAL EDEMA	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	MOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	THE CELLULAR INFILTRATE INVOLVES THE VENTRO-LATERAL ASPECT OF OF THE NASAL CAVITY. Not specified(MILD)
ADRENAL	NOT SPECIFIED(TRACE) (PRESENT)
PITUITARY CLAND -8- AUENORA	(PRESENT)
EYES & UPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

LETTERMAN ARWY INSTITUTE OF DIV OF RES SUPP, PATH SERV G SPECIES: RAT/FISCHER-344	STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 START DATE: 23-JAM-84
ANIMAL NUMBER: DATE OF DEATH:	PRETEST# 105 SEX: MALE STUDY DAY OF DEATH: 739	TUS: FINAL SACRIFICE
ORGAN WAME K	CENURDS / PHRASES SEVERITY	A T I O N S >> GROSS FREE-TEXT COM
LIVER	ADHESION(S) / MASS(ES) PRESENT	DIAPHRAGN BILATERAL, MULTIPLE VARIABLY SIZED,
TISSUE / HISTOPAT	TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S VV DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID .		TISSUE IS MISSING
HEART		NOT SPECIFIED(TRACE)
SPLEEN	SULAR	FOCAL(TRACE)
LYMPH NODES . -REACTIVE HYP	LYMPH NODES	REACTIVE HYPERPLASIA NOTED IN ONE OF THE CERVICAL NODES. Not specified (present)
LIVERCOMPOUND RELBILE DUCTULE -FOCUS OF CEL	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -CYSTIC DEGENERATION	MOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
KIDNEY	IDMEY	NOT SPECIFIED (MODERATE)
PROSTATE	ROSTATE	NOT SPECIFIED(TRACE)
SEMINAL VESICLE -GENERALIZED A	EMINAL VESICLE	NOT SPECIFIED (PRESENT)

endix J (cont.): ESEARCH	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT
DIV OF RES SUPP, PAIM SERV GP STUDY STUDY MUMBER: GLP83009 SPECIES: RAT/FISCHER-344	STUDY TYPE: CHRONI
S SEX: MALE EATH: 739	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 326.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
COLON 11SSUE IS MISSING	TISSUE IS MISSING
STOMACH	NOT SPECIFIED (PRESENT)
MANMARY GLANDS	NOT SPECIFIED(MILD)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT TO NASO-LACRIMAL DUCT. Not specified(mild)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

App. LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	Appendix Letterhan army institute of research DIV of res supp, path serv gp species: rat/fischer-344	(cont.):	: PATHOLOGY individual animal study number: start date: 23-Jan-64	OGY INDIVIDUAL ANIMAL DATA REPORT UMBER: GLP83009 JAN-84	ANIMAL DATA PRINTED: 21-NOV-89 PAGE: 226 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ANIMAL NUMBER: 106/ DATE OF DEATH: 30-JAN-86		106 SEX: MALE DEATH: 739	DOSE GROUSTUDY WEE	DOSE GROUP: 2 SACRIFICE STUDY WEEK OF DEATH: 106 TE	ATC
ORGAN NAME LIVER TESTES	KEYNORDS / PHRAS KEYNORDS / PHRAS ADHESION(S) MODULE(S)	2 Y	SERVA SEVERITY PRESENT V	GROSS FREE-TEXT COMMENTS CENTRAL ABDOMINAL WALL AND DIAPHRAGH FOCAL	TS AND DIAPHRAGM
TISSUE / HISTOPA	THOLOGIC	P 1 C T 1 S		OBSERVATIONS DISTRIBUTION (SEVERITY)	DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	EARTCARDIOHYOPATHY		:	NOT SPECIFIED(M:LD)	
LUNGS	UNGS		:	NOT SPECIFIED(TRACE)	
-COMPOUND RELATED INFLAMMAT-BILE DUCTULE EPITHELIAL HY-HEPATOCYTIC VACUOLIZATION-CYSTIC DEGENERATION-HEPATOCYTE COALESCING MICR MECROSIS AND MIMERALIZATIO	-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MIMERALIZATION	ON AND/OR CHOLANGIOFIBRO (FATTY) CNANGE LEADI	•	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE)	
KIDNEYPROGRESSIVE RENAL DISEASE	ENAL DISEASE			NOT SPECIFIED (MODERATE)	
PROSTATE	ROSTATECHRONIC PROSTATITIS			FOCAL (TRACE)	
TESTES	IL CELL ADENOMA		:	(PRESENT)	

Appendix	ם	(cont.):	: :	PATH	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	_	STUD	Y START	STUD STUD	INDIVIDUAL ANIMAL DATA REPOSTUDY NUMBER: GLP83009	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84	STUDY	PRINTED: 21-NOV-89 PAGE: 227 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 106/PRETEST= DATE OF DEATH: 30-JAN-86 STUDY DAY OF	·	06 SEX: MALE DEATH: 739	ALE 9	DOSE (DOSE GROUP: 2 STUDY WEEK OF DE	SACRIFICE SEATH: 106 TER	STATUS: FINA	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 379.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS		1	S		OBSE DISTRIB	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> / SPECIAL	>> / SPECIAL COMMENTS
SKIN .					. TISSUE	TISSUE IS MISSING		
MAMMARY GLANDS		•			. TISSUE	TISSUE IS HISSING		
ADRENAL					(PRESENT)	^		
PITUITARY GLAND					(PRESENT)	~		
EYES & OPTIC N	II NERAL	NLIZATION, SCLERA	, SCLER		. NOT SPE	NOT SPECIFIED (PRESENT)		

Appendix J (cont.): E	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009
108 SEX: MALE DEATH: 739	SACRIFICE STATU DEATH: 106 TERMINA
C G R O S S O R G A N O B S KEYNORDS / PHRASES S	E R V A T I O N S >> EVERITY GROSS FREE-TEXT COMMENTS
LIVER GRANULAR SURFACE PRESENT LIVER PROMINENT LOBULAR MARKINGS PRESENT LIVER ADNESION(S) MASS(ES) PRESENT TESTES GROWTH(S) / MASS(ES)	VENTRAL ABDOMINAL WALL BILATERL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O W S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
HEART	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES	
-REACTIVE MTPERPLASIA	ACL STRUCTURE (TRESER)
LIVERCOMPOUND RELATED INFLAMMATORY REACTIONBILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSISHEPATITISFOCUS OF CELLULAR ALTERATIONBASOPHILICHEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC)HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
KIDMEY	

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
AR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 108/PRETEST# 108 SEX: MALE DO: DATE OF DEATH: 30-JAM-86 STUDY DAY OF DEATH: 739 STU	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 366.00 (GMS)
C NICROSCOPIC TISSUE / HISTOPATHOLOGIC FINDINGS	DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	NOT SPECIFIED(TRACE)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)

Appendix Letterman army institute of research DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INSTITUTE O PATH SERV SCHER-344	Appendix of RESEARCH IV GP	Ħ 풉	ט	99)	(cont.):		ART	DAT.): PATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	ATECLOGY VIDUAL ANIMAL STUDY NUMBER: TE: 23-JAN-84		INDIVIDUAL DATA REPORT GLP83009	00 AL RT	Z .	ANIMAL STUDY 1	IMAL DATA STUDY TYPE: CHR	CHRON	PRIN P	160: AGE: YR CA	21-N 231 NRC1N	NOGE	INAL DATA PRINTED: 21-NOV-89 PAGE: 231 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIKAL NUMBER: 109/PRETEST DATE OF DEATH: 03-FEB-86 STUDY DAY OF	109/Pi 03-FEB-86	109/PRETEST= B-66 STUDY DAY OF	DAY (09 SEX: MALE DEATH: 743	X: N.	ALE 3	•	DOSE (ROUP:	2 IF DEAT	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	IFICE TE	STATU	S: F1	NAL SACRIFY WEIGHT:	CRIFIC NT:	374.	9) 00	MS)		374.00 (GMS)
	C G R O S S O KEYWORDS / PHRASE	G R O S S O KEYWORDS / PHRASE	PHR.		G	z		-	S E R V A SEVERITY	•	ON S	GROSS FRE-TEXT COMMENTS	COMMEN	I.S		í						
CIVER TESTES TESTES	, 4 3 m 3	ADHESION(S) GRANULAR SURFACE ENLARGED GROWTH(S) / MASS	URFAC						PRESENT TRACE PRESENT PRESENT	•	RAL AL	VENTRAL ABDOMINAL WALL LEFT, 3.5 x 2CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK	L WALL	RIABL	1218 Y	ED, YEI	110W/8	ILACK				LACK
<pre></pre>	STOPATHOLOGIC FI	I C R O	S	C 0 P	-	:	-	S	S U E	0 B 0 ST 0 IST	S E R	O B S E R V A T I O N S	I O N VERITY		PECIAL	/ SPECIAL COMMENTS	ENTS					
PARATHYROLD)										UE 1S SPECII	TISSUE IS MISSING Not specified (TRACE)	G ACE)									
LUNGS	N OF PULMON	IARY ARTE	RIES	:		:		:		NOT	SPECI	NOT SPECIFIED(TRACE)	ACE)								,	
LYMPH NODES	CEELS, HEMOSID SINUSES IYPERPLASIA	ERIN AND	/0R	ERYT:	HROP.	HA 60	CY 10		YTHROPHAGOCYTOSIS WITHIN	RBC' NOT	SPECII	S, PIGNENT AND REAC SPECIFIED (PRESENT) SPECIFIED (PRESENT)	ND REA Resent Resent	CT1VE	HYPE	RPLASI	A NOTE	2	CERV I	ICAL	NODI	RBC'S, PIGMENT AND REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES Not specified (present) Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AN	ELATED INFLAMMATORY REACTION LE EPITHELIAL HYPERPLASIA AN	IATORY RE Hyperpla	ACTI SIA	ON AND		HOLA	0 I 9 N	CHOLANGIOFIBRO	D/OR CHOLANGIOFIBROSIS	NON TON TON	SPECIFIED SPECIFIED SPECIFIED	SPECIFIED (PRESENT) Specified(MILD) Specified (Present)	(PRESENT) MILD) (PRESENT)	2 2								
KIDNEYprogressive Renal Disease	ENAL DISEAS		:		:	:	:			MOT	SPECI	NOT SPECIFIED(MODERATE)	DERATE	.								
PROSTATE	LASIA	•	:		i						SPECI	NOT SPECIFIED(TRACE)	ACE)									
SEMINAL VESICLE				:	:		:	:	•	:												

Appendix J (cont.): PATHOI	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
ANIMAL NUMBER: 109/PRETEST= 109 SEX: MALE DOSE GROUP: 2 DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 374.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	NOT SPECIFIED(TRACE)
ADRENAL	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

STUOY START DATE:	GLP83009
110/PRETEST= 110 SEX: MALE 03-FEB-86 STUDY DAY OF DEATH: 743	SACRIFICE STATUS: FINAL SACRIFICE EATH: 107 TERMINAL BODY WEIGHT: 392
AANE KEYNORDS / PHRASES	T I O N S >> GROSS FREE-TEXT C
SKIM SUBCUTANEOUS MASS PRESENT SPLEEN MODULE DISCOLORATION PRESENT LIVER ADMESION(S) / MASS(ES) PRESENT TESTES	FIRM, WHITE, 4 X 5CM, RIGHT THORACIC WALL MULTIPLE, WHITE, SUBCAPSULAR LIGHT RED DIAPHRAGM, VENTRAL ABDOMINAL WALL BILATRAL, MULTIPLE VARIABLY SIZED, YELLOW
A MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	. TISSUE IS MISSING
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS DE PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
SPLEEN	. MULTI-FOCAL (MODERATE)
LYMPH NODES	. REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -BENIGN HYPERPLASTIC NODULE(S) -FIBROSIS, PARENCHYMAL (SCARRING)	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD) FOCAL(TRACE)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF BES SHIPP DATH SERVICE	LOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT PRINTED: 21-NOV-89
S) UDY STAR	STUDY TYPE: CHRONI
J/PRETEST# 110 SEX: MALE STUDY DAY OF DEATH: 743	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 392.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
SKIN	. THE SUBCUTANEOUS MASS IN THE RIGHT THORACIC WALL IS A FIBROMA. (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (TRACE)
PITUITARY GLAND	(PRESENT) FOCAL (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
THORAX	MISCELLANEOUS TISSUE THE MASS ON THE RIGHT THORACIC WALL IS A FIBROMA. IT WAS CODED Under Skin.

THEM IS FINAL SACRIFICE TERMINAL BODY WEIGHT: VARIABLY SIZED, YELLOW N S >> ITTY) / SPECIAL COMMENTS ITTY) / SPECIAL COMMENTS HE LESION IS WELL-DEMARCATES A REW SEGENERATING EPITHE A FEW DEGENERATING EPITHE	App Letterman army institute of R DIV of RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	INSTITUTE P. PATH SE ISCHER-344	Appendix OF RESEARCH RV GP	pendix RESEARCH	ט	(cont.):	5.): 107 STA	ont.): PATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84		IVIDUAL REPORT 3009	ANIMAL D	DATA YPE: CHRONI	EMAL DATA PRINTED: 21-NOV-89 PAGE: 235 STUDY TYPE: CHRONIC/2 YR CARCINOL'HIC	NOV-89
MAME *** G R O S S O R G A M O B S E R V A REYWORDS / PHRASES **** ADMESION(S)	ANIMAL NUMBER: DATE OF DEATH:	111 03-FEB-86	. <u>.</u>	T. DY DAY	٠ ۴	SEX:	HALE	DOSE G STUDY	ROUP: 2 JEEK OF D	SACRIFICE EATH: 107 TE	STATUS: FINAL RMINAL BODY WE	SACRIFICE IGHT:	382.00 (GMS)	:
ADMESION(S) GROWTH(S) / MASS(ES) FRESENT GRAWLLAR SURFACE GROWTH(S) / MASS(ES) FRESENT A	ORGAN WANE	*	G R O	S S		X	:	B S E R V SEVERITY	A T I O N	S >> REE-TEXT COMMEN	\$1			
A I C R O S C O P I C T I S S U E ONYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIES SRALIZATION OF PULMONARY ARTERIES JANONIA, INTERSTITIAL, CHRONIC STERMINED STERMINED OUND RELATED INFLAMMATORY REACTION OUND RELATED INFLAMMATORY REACTION	LIVER KIDNEY TESTES		ADNES 101 GRANULAR GROWTH(S	N(S) R SURF.	ACE ASS(ES	â		PRESENT TRACE PRESENT	DIAPHRA	GM AL, MULTIPLE VA	r. Riably sized,	YELLOW		
DENOCARCINOMA, NOT OTHERWISE SPECIFIED, SITE OF ORIGIN (STERMINED STATEMINED	TISSUE / HISTO	** PATHOLOGIC	FINDING	8	•	•	; -) s	O B S E	R V A T I O N (\$ >>) / SPECIAL COL	NA ENTS		
SALIZATION OF PULMONARY ARTERIES JHONIA, INTERSTITIAL, CHRONIC S SITE OF ORIGIN (TERMINED OUND RELATED INFLAMMATORY REACTION OUND RELATED INFLAMMATORY REACTION OUND RELATED INFLAMMATORY REACTION	MEARTCARDIOMYOPAT	HY TROPHY OF	MUSCULAR	R ARTE	 R1ES				NOT SPE	CIFIED(MILD) CIFIED(MILD)				
DENOCARCINOMA, NOT OTHERWISE SPECIFIED, SITE OF ORIGIN (:TERMINED OUND RELATED INFLAMMATORY REACTION OUND RELATED INFLAMMATORY REACTION	LUNGS	ON OF PULM	ONARY AR	RTERIE:		:			NOT SPE	CIFIED(TRACE) ILD)				
TERMINED TO THE THE THE TANK TO THE TOTAL THE THE THE THE THE THE THE THE THE THE	e e	INOMA, NOT	OTHERUI	S S S S S S S S S S S S S S S S S S S			0.0	3.	THIS UNITHEL EPITHEL PAPILLA PAPILLA INDISTINATER SCATTER OF SCATT	JSUAL LESION CONTRACTOR AND VERNING THE LESION CONTRACTOR AND AND AND AND AND AND AND AND AND AND	ISISTS PRIMARIII RAY FEW LYMPHOG IR SHOW IS WELL SESION IS WELL ATED. CELLS P UNDANT EOSINOF AMES. MITOTIC E A FEW SPACES EW DEGENERATIN	CYTES. MCCYTES. MCCYTES. MCLL MESTS OF TAME LARGE HAVE LARGE PHILIC CYT C FIGURES S FILLED WG EPITHEL	LIFERATING DS CORDS WITH DR CORDS WITH E ROUND TO OV TOPLASM WITH ARE RARE. TAL AND	SOME ENT AL AL
	LIVERCOMPOUND RELY-BILE DUCTULE	ATED INFLA	MMATORY L HYPERP	REACTI	ION AND/OF	R CHOLL		BROSIS	NOT SPEC NOT SPEC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)				

Appendix J (cont.): PATHOLOGY LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	LOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT NUMBER: GLP83009
STUDY STAR	STUDY TYPE: CHROWI
111/PRETEST# 111 SEX: MALE EB-86 STUDY DAY OF DEATH: 743	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 382.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERFFOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGN HYPERPLASTIC NODULE(S) -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS	MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMENAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESEMT)
PANCREAS	NOT SPECIFIED(TRACE)
DIAPHRAGMCOMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

IETTERMA MANY HISTITUTE OF RESEARCH HOUTOUAL AIMAL DATA REPORT	
NAME	DATA REPORT GLP83009
KEYUORDS / PHRASES SEVERITY GROSS FREE-TEXT COMMENTS 4 OPTIC N. LENS CATARACT 5 OPTIC N. LENS CATARACT 6 OPTIC N. LENS CATARACT 7 DRESENT LEFT 8 OPTIC N. LENS CATARACT 8 OPTIC N. S. M. L. C. N. S. D. M. L. S. D. M. L. T. D. N. S. D. C. D. S. S. D. D. D. D. PRESENT 8 OPTIC N. LENS CATARACT 8 OPTIC N. S. D. C. T. S. D. C. D. S. S. D. V. R. T. I. D. N. S. D. D. D. D. PRESENT 9 OFTIC STANDARD CONTRACT OF THE STANDARD CONTRACT CONTRAC	: ::
& OPTIC N. LENS CATARACT S ENLARGED PRESENT 2.5 X 12CH, BILATERAL S ENLARGED ADHESION(S) PRESENT 2.5 X 12CH, BILATERAL S GROUTH(S) / MASS(ES) PRESENT 2.5 X 12CH, BILATERAL ADHESION(S) PRESENT DIAPHRAGH, VENTRAL ABDONIN RESENT DIAPHRAGH, VENTRAL ABDONIN RESENT DIAPHRAGH, VENTRAL ABDONIN REACTIVE HYPERPLASIA NOT SPECIFIED (MODERATE) REALIZATION OF PULMONARY ARTERIES NOT SPECIFIED (PRESENT) RED AND/OR CYSTIC MEDULLARY SINUSES NOT SPECIFIED (PRESENT) ROUTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (PRESENT) ROUTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (PRESENT)	R S >> FREE-TEXT COMMENTS
E / HISTOPATHOLOGIC FINDINGS E / HISTOPATHOLOGIC FINDINGS ID GLANDS ID GLANDS ID GLANDS ID GLANDS ID GLANDS IN OT SPECIFIED (MODERATE) IN OT SPECIFIED (TRACE) IN OT SPECIFIED (TRACE) IN OT SPECIFIED (TRACE) IN OT SPECIFIED (PRESENT) IN OT SPECIFIED (PRESENT) IN OT SPECIFIED (PRESENT) IN OT SPECIFIED (PRESENT) IN OUR SPECIFIED (PRESENT) IN OUR SPECIFIED (PRESENT) IN OULHOWARY REACTION IN OULHOWARY AND/OR CHOLANGIOFIBROSIS IN OUT SPECIFIED (PRESENT) IN OULHOWARY REACTION IN OUT SPECIFIED (PRESENT) IN OUT SPECIFIED (PRESENT) IN OUT SPECIFIED (PRESENT)	ERAL 1.5cm, bilateral Eral, multiple variably sized, yellow Ragm, vewtral abdominal wall
ID GLANDS	\$
ERALIZATION OF PULMONARY ARTERIES NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE) SOME OF THE SINUSES IN THE NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) SOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESENT)	(1)
REALIZATION OF PULMONARY ARTERIES NODES CITUE HYPERPLASIA ATED AND/OR CYSTIC MEDULLARY SINUSES OUND RELATED INFLAMMATRY REACTION NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	SECIFIED(MODERATE)
MODES CTIVE MYPERPLASIA NOTED SOME OF THE SINUSES IN THE NOT SPECIFIED (PRESENT) ATED AND/OR CYSTIC MEDULLARY SINUSES NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) SOUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (PRESENT)	FECIFIED(TRACE)
SOME OF THE SINUSES IN THE NOT SPECIFIED (PRESENT) ATED AND/OR CYSTIC MEDULLARY SINUSES OUND RELATED INFLAMMATORY REACTION OUTURE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (PRESENT)	
OOUND RELATED INFLAMMATORY REACTION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS)F THE SINUSES IN THE MESENTERIC NODES ARE GREATLY DILATED FECIFIED (PRESENT) FECIFIED (PRESENT)
NOT	SPECIFIED (PRESENT) SPECIFIED(MODERATE) SPECIFIED(MILD)
KIDNEYPROGRESSIVE REWAL DISEASE	ECIFIED(MODERATE)
PROSTATE	

<pre>Bndix J (cont.):</pre>	INDIVIDUAL ANIMAL DATA DATA REPORT
STUDY START	GL P83009
ANIMAL NUMBER: 112/PRETEST* 112 SEX: MALE DOSE DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743 STUDY	GROUP: 2 SACRIFICE STAT WEEK OF DEATH: 107 TERMIN
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	. (PRESENT)
PANCREAS ACINAR (EXOCRINE) ATROPHY	NOT SPECIFIED(MILD)
NIXS	TISSUE IS MISSING
MAMMARY GLANDS	TISSUE IS MISSING
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCT. Not specified(MILD)
ADRENAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC NRETINAL ATROPHY AND/OR DEGEWERATION, UNILATERAL OR BILATERAL -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA -LENTICULAR DEGEMERATIVE CHANGES COMPATIBLE WITH CATARACT	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE

Z	Appendix	J (cont.):	:: •	PATH	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	JAL A	NIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUD	1 OY START	NDIVIDUA STUDY DATE: 2	INDIVIDUAL ANIMAL E STUDY NUMBER: (STUDY START DATE: 23-JAN-84	ATA LP8	_	STUDY	PRINTED: 21-NOV-89 PAGE: 239 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-A PAGE: 239 IC/2 YR CARCIA	PRINTED: 21-NOV-89 PAGE: 239 C/2 YR CARCINOGENIC
ANIMAL NUMBER: 112/PRETEST= DATE OF DEATH: 03-FEB-86 STUDY DAY O	ETEST# STUDY DAY OF	112 SEX: MALE DOSE GROUP: 2 OF DEATH: 743 STUDY WEEK OF DE	ALE	DOSE G STUDY	ROUP: 2 WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 380.00 (GMS)	ICE STA	IUS: FINI	SACRIFICE STATUS: FINAL SACRIFICE: 107 TERMINAL BODY WEIGHT: 380.00 (GMS)	380.00 (SMS)
<pre>4< MICROSCOPIC TISSUE OBSERVATIONS >> TISSUE / NISTOPATHOLOGIC FINDINGS</pre>	COLC FINDINGS	0 P 1 C T 1 S S U E	S	 	O B S DISTRI	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ONS RITY)/	SPECIAL	COMMENTS		
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	TORY REACTION				. MISCELI	MISCELLANEOUS TISSUE	SUE				

APPOINCE X LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY START	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHRO
M4	13 SEX: MALE DEATH: 743	: 2 SACRIFICE STATUS: FIN. OF DEATH: 107 TERMINAL BODY
ORGAN MANE < G R O S S O R O S S O R ORGAN WANE KEYLORDS / PHRASES	R G A N O 189	
LIVER ADMESTON(S) TESTES GROWTH(S) / MASS(ES)	MASS(ES) PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	SCOPIC TISSUE	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS		NOT SPECIFIED (PRESENT)
PARATHYROID		TISSUE IS MISSING
HEARTCARDIOMYOPATHY		NOT SPECIFIED(MILD)
LUNGS	IES	NOT SPECIFIED(TRACE)
LYMPH MODES	DR ERYTHROPHAGOCYTOSIS WITHIN	RBC'S AND PIGMENT NOTED IN MEDIASTINAL NODE. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND -HEPATITIS -CYSTIC DEGENERATION -MEPATOCELLULAR CARCINOMA	STION IA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE		NOT SPECIFIED (MODERATE)
PROSTATE		

Appendix	dix	9	(cont.):		PATE	PATHOLOGY	INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	EARCH		STUDY	START	NDIVIDU STUD DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	_	STUDY	TYPE: CHRO	PRINTED: 21-NOV-89 PAGE: 241 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	1-NOV-89 41 CINOGENIC
ANIMAL NUMBER: 113/PRETEST= DATE OF DEATH: 03-FEB-86 STUDY DAY OF	T= DY DAY 0	113 S	113 SEX: MALE : DEATH: 743	w	DOSE STUDY	GROUP: 2 NEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	STATUS: FIN	AL SACRIFI WEIGHT:	388.00 (GMS)	(S
<pre></pre>) I d		SI	1 S S U E	O B S DISTR	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >>	COMMENTS		
PROSTATE	•					NOT S	SPECIFIED(MILD) Specified(Trace)				
SEMIMAL VESICLE				•		. NOT S	NOT SPECIFIED (PRESENT)	•			
TESTES				•		. (PRESENT)	MT.)				
PANCREAS							FOCAL (M1LD)				
SKIM						TISSUI	TISSUE IS MISSING				
MAMMARY GLANDS	:					TISSU	TISSUE IS MISSING				
PITUITARY GLAND						. (PRESENT)	£1.				
DIAPHRAGM	REACTION						MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	•			

J (cont.):	INDIVIDUAL ANIMAL DATA
STUDY STAR	GLP83009
14 SEX: WALE DEATH: 743	1CE
C G R O S S O R G A M O B KEYWORDS / PHRASES	T 1 0 GROSS
SPLEEN ENLARGED (SPLENOHEGALY) MARKED LIVER ADMESION(S) TESTES GROWTH(S) / MASS(ES) PRESENT LIVER GROWTH(S) / MASS(ES) PRESENT	7.5 X 2CM 7.5 X 2CM 7.5 X 2CM 7.5 X 2CM 7.6 X 2CM 7.7 SILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK 7.8 X 25CM DIAMETER
C NICROSCOPIC TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEARTCARDIOMYOPATHY	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) (PRESENT) MULTI-FOCAL (PRESENT)
SPLEEN	(PRESENT)
LYMPH NODES	(PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION -NECROSIS -CYSTIC DEGENERATION -BENIGN HYPERPLASTIC NODULE(S)	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) FOCAL (MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)

(cont.): P INDI STUDY START DA	ATBOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84
RETEST 114 SEX: WALE STUDY DAY OF DEATH: 743	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 354.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESEMT)
KIDNEY	NOT SPECIFIED (MILD)
PROSTATE	WOT SPECIFIED(MILD)
SEMINAL VESICLEGENERALIZED ATROPHY	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
XIXS	TISSUE IS MISSING
MANMARY GLANDS TISSUE IS MISSING	TISSUE IS MISSING
MOSE/TURBINATES	CELLULAR INFILTRAT 1S ADJACENT NASO-LACRIMAL DUCT. Not specified(mild)
EYES & OPTIC W	NOT SPECIFIED(TRACE) Not specified (present)
WHOLE BODYYMPHOCYTIC LEUKENIA	

(cont.): stuby STAR	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHR
15/PRETEST= 115 SEX: MALE 85 STUDY DAY OF DEATH: 666	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 301.00 (GMS)
NAME C G R O S S O R G A N O B KEYWORDS / PHRASES A D B A DHESION(S)	
SKIM EYES & OPTIC N. CRUSTY MATERIAL, PERIORBITAL PRESENT WHOLE BODY POST MORTEM AUTOLYSIS. MODERATE TESTES ADHESION(S)	SUBCUTANEOUS, LEFT NECK AND SHOULDER AREA. RED, ALSO AROUND WARES AND ON FOREFEET Intra-abdominal, bilateral
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	TISSUE IS AUTOLYTIC
HEARTCARDIOMYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(MILD)
SPLEEK	TISSUE IS AUTOLYTIC
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES	RBC'S AND PIGMENT NOTED IN MEDIASTINAL NODES. Not specified (present)
-COMP JUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BENE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)

Appendix J (cont): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH	LOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT	06-MAL-50
STUDY START DA	GLP83009 STUDY TYPE: CHRONI	2 ARCINOGENIC
NUMBER: 115/PRETEST= 115 SEX: MALE DEATH: 18-NOV-85 STUDY DAY OF DEATH: 666	2 SACRIFICE STATUS: FOUND DEAD OF DEATH: 96 TERMINAL BODY WEIGHT: 301.00	(GMS)
S	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)	
URINARY BLADDER	TISSUE IS AUTOLYTIC	
PROSTATE	NOT SPECIFIED(MILD)	
SEMINAL VESICLE	TISSUE IS AUTOLYTIC	
ILEUM	TISSUE IS AUTOLYTIC	
CECUM	TISSUE IS AUTOLYTIC	
RECTUM	TISSUE IS AUTOLYTIC	
SCIATIC NERVE	TISSUE IS MISSING	
TONGUE	TISSUE IS MISSING	
SKIN	THERE IS NO TISSUE SPECIMEN FOR THIS ANIMAL THAT CORRESPONDS THE SUBCUTANEOUS ABSCESS DESCRIBED GROSSLY.	SPONDS TO
NOSE/TURBINATES	TISSUE IS MISSING	
ADRENAL	NOT SPECIFIED(MILD)	
PITUITARY GLANDB- ADENOMA	(PRESENT)	
EYES & OPTIC N	LENTICULAR DEGENERATION IS BILATERAL. AUTOLYTIC CHANGE MAKES EVALUATION OF THE RETINA IMPOSSIBLE. NOT SPECIFIED (PRESENT)	MAKES

TISSUE IS MISSING

ANIMAL NUMBER: 116/PRETEST= 116 SEX: DATE OF DEATH: 16-AUG-85 STUDY DAY OF DEATH: < GROSS ORGAN ORGAN WAME KEYUORDS / PHRASES SKIN SUBGUTANEOUS MASS HEART ADMESTOR(S)	TIG SEX: MALE Y OF DEATH: 572	
NAME .		DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 82 TERMINAL BODY WEIGHT: 411.00 (GMS)
	•	X 5CM DIAMETER
<pre><< M I C R O S TISSUE / MISTOPATHOLOGIC FINDINGS</pre>	S 1 1 C 1 1 S	1
: 8		MYOCARDIAL DEGENERATION AND FIBROSIS TYPICAL OF HEART ARE TYOCARDIAL DEGENERATION AND FIBROSIS TYPICAL OF CARDIOMYOPATHY THAT IS COMMON IN THIS STRAIN OF RAT. THE LESION NOTED GROSSLY IS PROBABLY PART OF THIS COMPLEX.
LUNGS		NOT SPECIFIED(TRACE)
SPLEEN		NOT SPECIFIED(MILD)
LYMPH MODES	RETTHROPHAGOCYTOSIS WITHIN	RBC'S AND PIGNENT NOTED IN MEDIASTINAL NODES. Thin not specified (present)
LIVER	TION A AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (PRESENT) IS NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(TRACE)
PROSTATE		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL NUMBER: 116/PRETEST# 116 SEX: MALE DOSE GROUP: 2 DATE OF DEATH: 16-AUG-85 STUDY DAY OF DEATH: 572 STUDY WEEK OF	SACRIFICE STATU DEATH: 82 TERMINA
TISSUE / WISTOPATHOLOGIC FINDINGS	OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES INTERSTITIAL CELL NYPERPLASIA	FOCAL(TRACE)
PANCREAS	MULTI-FOCAL(MILD) (PRESENT)
SKIN	SARCOMA IS IN THE SUBCUTIS IN THE AXILLARY REGION. THERE IS NO HISTOLOGIC EVIDENCE OF THE PRESENCE OF THE TEST MATERIAL. NO EVIDENCE OF WEOPLASIA WAS OBSERVED IN THE ABDOMINAL CAVITY. ALL INDICATIONS ARE THAT THE PRIMARY SITE FOR THIS LESION IS THE SUBCUTIS IN THE AXILLARY AREA.
INAR TISSUE	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS BILATERAL AND INVOLVES NASO-LACRIMAL Ducts. Not specified(mild)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344	LOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT NUMBER: GLP83009 5-JAM-84
/PRETEST= 117 SEX: MALE STUDY DAY OF DEATH: 557	SACRIFICE STATU DEATH: 80 TERMINA
ORGAN NAME KEYLORDS / PHRASES SEVERITY	T 1 0
SUBCUTANEOUS MASS	NULTIPLE, FIRM, WHITE, 12CM DIAMETER, ADJACENT TO SUBMANDIBULAR LYMPH NODES
LIVER ADMESTON(S) A M I C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	VENTRAL ABBOMINAL WALL AT ATPHOLD PROCESS O 8 S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LUNGS	NOT SPECIFIED (TRACE)
SPLEEMREMOSIDERIN PIGMENTATION (RED PULP)	NOT SPECIFIED (PRESENT)
LYMPH MODES	RBC'S AND PIGMENT NOTED IN MESENTERIC NODE.
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (TRACE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)

	Appendix J		(cont.):	PATHO	LOGY	PATHOLOGY INDIVIDUAL ANIMAL	ANIMAL	DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	E OF RESEARCH	•	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL STUDY T DATE: 23	VIDUAL ANIMAL DATA REPOSTUDY NUMBER: GLP83009 TE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY MUNBER: GLP83009 T DATE: 23-JAN-84	STUBY 1	YPE: CHRONE	PRINTED: 21-NOV-89 PAGE: 250 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
AMIMAL NUMBER: 117/PRETEST= DATE OF DEATH: 01-AUG-85 STUDY DAY OF	117/PRETEST= JG-85 STUDY DAY	, —	17 SEX: MALE DEATH: 557	DOSE GA STUDY W	DOSE GROUP: 2 STUDY WEEK OF DE	SACRI SATH: 80	TATUS: SACR	MEIGHT:	18UND 292.00 (GNS)
TISSUE / HISTOPATHOLOGIC FINDINGS	COURT OF COURTS	•	PIC TISSUE	S C E	0 B S E 01STR18	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	>> / SPECIAL	COMMENTS	
MAMMARY GLANDS		•		•	DILATED ABDOMIN/	DILATED MAMMARY DUCTS ARE PRESENT IN SECTION #15 ADJACENT TO Abdominal Skin and in Section #21 which is described grossly as multiple firm white foci adjacent to submandibular lymph	TE PRESENT CTION #21	IN SECTION WHICH IS DE NT TO SUBMA	#15 ADJACENT TO ESCRIBED GROSSLY Andibular Lymph
-DILATATION (ECTASIA) OF DUCTS AND DUCTULES	F DUCTS AND DU	CTULES			NODES. NOT SPEC	NODES. Not Specified (Present)			
PITUITARY GLAND				•	(PRESENT)	_			
-COMPOUND RELATED INFLAMMATORY REACTION	MMATORY REACTIO				MISCELLA NOT SPEC				

	Appendix	J (cont.):	PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF RIDIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	IN STUDY START	INDIVIDUAL ANIMAL STUDY WUMBER: START DATE: 23-JAM-84	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ANIMAL NUMBER: 118/ DATE OF DEATH: 03-FEB-86	ANIMAL HUMBER: 118/PRETEST= 1 DATE OF DEATH: 03-FEB-86 STUDY DAY OF	18 SEX: MALE DEATH: 743	DOSE GR	E E
ORGAN WAME	C G R O S S O KEYWORDS / PHRASE	8 0 X V D X	S E R V A SEVERITY	
SPLEEN SPLEEN TESTES KIDNEY LIVER	ENLARGED (SPLENOMEGALY) ENLARGED GROWTH(S) / MASS(ES) GRANULAR SURFACE ADMESION(S)	EGALY) ES)	MILD PRESENT PRESENT TRACE	S X 1CM BILATERAL, 2.5 X 1.5CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW DIAPHRAGM, VENTRAL ABDOMINAL WALL
TISSUE / HISTOPA	C N I C R O S C O TISSUE / HISTOPATHOLOGIC FINDINGS	P I C T I S	S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	EART	16.5	•	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUNGS	UNGS			NOT SPECIFIED(TRACE)
SPLEEN	PLEEN	A, METASTATIC	:	(PRESENT)
-COMPOUND RELATED INFLAMMATO -BILE DUCTULE EPITHELIAL HYPH-MEPATITIS -FOCUS OF CELLULAR ALTERATION -NEPATOCYTIC VACUOLIZATION -NECROSIS, NEPATOCYTIC, INDINECROSIS, NEPATOCYTIC, INDI-	-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -HEPATOCYTIC VACUOLIZATION -NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS -HE:ATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	ON AND/OR CHOLANGIOFIBROSIS HILIC LLS (FATTY) CHANGE LEADING	OSIS ING TO	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD)
RIDNEY	SSIVE RENAL DISEASE			MOT SPECIFIED (MODERATE)
PROSTATE			•	

Appendix J (cont.): PATRC	IAL ANIMAL DATA
STUDY STAR	INDIVIDUAL ANIMAL DAIA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
18 SEX: MALE DEATH: 743	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 363.00 (GMS)
	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTESB- INTERSTITIAL CELL ADENOMA	(PRESENT)
STOMACH	NOT SPECIFIED (PRESENT)
MANMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE Not Specified (Present)

4	STUDY START DATE: 23-JAh-84	STUDY TYPE: CHRONIC
NUMBER: 120/PRETEST 120 SEX: DEATH: 03-FEB-86 STUDY DAY OF DEATH:	•	SACRIFICE STATUS: OF DEATH: 107 TERMINAL
ORGAN WANE KEYLORDS / PHRASES	OBSERVA SEVERITY	
LIVER ADHESION(S) TESTES GROUTH(S) / MASS(ES)	PRESENT PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	פררי	NOT SPECIFIED (TRACE)
HEARTCARDIOMYOPATHY		NOT SPECIFIED(MILD)
LUNGS		NOT SPECIFIED(TRACE)
LYMPH NODES		
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	OSIS WITHIN	DILATED. Not specified (present)
MEDULLARY SINUSES -REACTIVE HYPERPLASIA -DILATED AND/OR CYSTIC MEDULLARY SINUSES		NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	OFIBROSIS LEADING TO	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE)

(cont.): P	'ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 TE: 23-JAN-64
	CE STATU TERMINA
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT. Not specified(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC W	NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): PAI of RESEARCH RY GP STUDY START DATE	OGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT UMBER: GLPB3009 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
121 SEX: MALE DOS DEATH: 743 STU	P: 2 SACRIFICE STATUS: FIN K OF DEATH: 107 TERMINAL BODY
ORGAN NAME (T 1 O N S >> CROSS FREE-TEXT COMMENTS DIFFUSE DIAPHRAGM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SPLEEN	(PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BALE DUCTULE EPITNELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -CYSTIC DEGENERATION -BENIGM HYPERPLASTIC NODULE(S) -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
TESTES	

J (cont.):	AL ANIMAL DATA
NSTITUTE OF RESEARCH PATH SERV GP CHER-344 STUDY START	INDIVIOUAL AMIMAL DATA KEPOKI STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL NUMBER: 121/PRETEST= 121 SEX: MALE DOSE G DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 382.00 (GMS)
TISSUE / HISTOPATMOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	
ADRENAL	NOT SPECIFIED (TRACE)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE

ndix J (cont.): R EARCH STUDY START DA	'ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 TE: 23-JAN-64
122 SEX: MALE DEATH: 745	UP: 2 EK OF D
C G R O S S O R G A R O B S KEYWORDS / PHRASES SE	T I O N S >> GROSS FREE-TEXT COMMENTS
LIVER ADMESSION(S) EYES & OPTIC N. LENS CATARACT TESTES TESTES FRESENT	LEFT VENTRAL ABDOMINAL WALL LEFT RIGHT, MULTIPLE VARIABLY SIZED, YELLOW
C MISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEARTCARDIOMYOPATHY	NOT SPECIFIED (MODERATE)
LYMPH NODES	RBC'S NOTED IN CERVICAL NODE. Not specified (present)
- LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD) NOT SPECIFIED(MODERATE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
TESTES	(PRESENT)

Appendix J		(cont.):	PATH	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP SPECIES: RAT/FISCHER-344	SI	UDY STAI	INDIVIDU STUC ST DATE:	INDIVIDUAL ANIMAL DATA REPO STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	GLP	STUDY	PR TYPE: CHRONIC/	PRINTED: 21-NOV-89 PAGE: 259 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
AMIMAL NUMBER: 122/PRETEST= DATE OF DEATH: 05-FEB-86 STUDY DAY OF	122 SEX: MALE DEATH: 745	MALE 745	POSE	DOSE GROUP: 2 STUDY WEEK OF DE	. I	STATUS: FIN	SACRIFICE STATUS: FINAL SACRIFICE 11 107 TERMINAL BOOT WEIGHT: 39	SACRIFICE STATUS: FINAL SACRIFICE H: 107 TERMINAL BODY WEIGHT: 390.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS		7 I C I I S S C E		O B S I	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >>	E.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NOSE/TURBINATES	NASAL CA	VITY, SI	NUSES,	CELLUL, NOT SPE	CELLULAR INFILTRATE IN NOT SPECIFIED(TRACE)	VOLVES MASO	-LACRIMAL DUCT	ċ
CORNEAL MINERALIZATION -CORNEAL MINERALIZATION -RETIMAL ATROPHY AND/OR DEGENERATION, UNILATERAL OR BILATERAL -CORNEAL VASCULARIZATION -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	NILATERA	L OR BIL	ATERAL	NON NOT TON TON	NOT SPECIFIED(TRACE) NOT SPECIFIED(MARKED) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)	•		

Appendix J (cont.): PATHOLOGY LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344	ATHOLOGY INDIVIDUAL ANIMAL DATA VIOUAL ANIMAL DATA REPORT STUDY MUMBER: GLP63009 TF: 23-LAM-84
/PRETEST= 123 SEX: MALE STUDY DAY OF DEATH: 745	SACRIFICE STATU DEATH: 107 TERMINA
C G R O S S O R G A N O S S R V KEYLORDS / PHRASES SEVERIT	•
TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT LIVER ADHESION(S) PRESENT LIVER MODULE(S)	BILATERAL, 2.75 x 1.75 BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK DIAPHRAGM, VENTRAL ABDOMINAL WALL RIGHT LATERAL LOBE, MULTIPLE, DIFFUSE, YELLOW/RED, ENLARGED 4 x 2.5 x 2CM
TISSUE / HISTOPATNOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
HEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
LUNGS	PARTS OF TWO LOBES OF LUNG ARE POORLY PERFUSED AND THERE IS COLLAPSE OF ALVEOLI. THIS IS A FIXATION ARTIFACT ONLY. NOT SPECIFIED (TRACE)
LYMPH NODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES. Not specified (present)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -CYSTIC DEGENERATION -M- NEPATOCELLULAR CARCINOMA	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	

. J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL MUMBER: 123/PRETEST# 123 SEX: MALE DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 358.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	WOT SPECIFIED(TRACE)
TESTES	(PRESENT)
ILEUM	TISSUE IS MISSING
SKELETAL MUSCLE	NOT SPECIFIED (PRESENT)
TONGUE	DIFFUSE(TRACE)
DIAPHRAGM	

(cont.): study star	DATA REPOR
124 SEX: MALE Death: 745	S SACRIFICE STATUS: FIN OF DEATH: 107 TERMINAL BODY
NAME KEYLORDS / PHRASES S	
LIVER ADHESION(S) TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT LIVER NODULE(S)	DIAPHRAGM, VENTRAL ABDOMINAL WALL LEFT, 1.5 x 1CM RIGHT, MULTIPLE VARIABLY SIZED, YELLOW/BLACK RAISED, .5CM DIAMETER
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
HEART	NOT SPECIFIED (MILD)
LUNGS	NOT SPECIFIED(TRACE)
THYMUS	TISSUE IS MISSING
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S) -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
RIDNEYPROGRESSIVE RENAL DISEASE	HOT SPECIFIED(MILD)
PROST	

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

LETTERMAN ARMY INSTITUTE OF RESEARCH	INDIVIDUAL ANIMAL DATA REPORT
STUDY STAR	GLP83009 STUDY TYPE: CHROWI
124/PRETEST 124 SEX: MALE E8-86 STUDY DAY OF DEATH: 745	DEATHE
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	MOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCT. Not specified(trace)
ADRENAL	WOT SPECIFIED(TRACE)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

M ARMY INSTITUTE OF RESEARCH ES SUPP, PATH SERV GP STURAL/FISCHER-344 STUDY START DATE:	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGGE
: MALE 745	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 326.00 (GMS)
ORGAN MAME KEYWORDS / PHRASES SEVERITY LIVER ADMESION(S) FESTES GROWNIARY GLAND GRAWULAR SURFACE TRACE	A T I O M S >> GROSS FREE-TEXT COMMENTS VENTRAL ABDOMINAL WALL S X 1.5CM RIGHT, MULTIPLE VARIABLY SIZED, YELLOW FOCAL, RAISED, RED, .3CM DIAMETER
C M I C M O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
NEART	NOT SPECIFIED(TRACE) (PRESENT)
LUNGS	MULTI-FOCAL(TRACE) (PRESENT)
THYMUS	. (PRESENT)
SPLEEN	. MOT SPECIFIED(MODERATE) (PRESENT)
LYMPH HODES	LARGE GRANULE LYMPHOCYTE LEUKEMIA WAS PRESENT ON MOST NODES INCLUDING MULTIPLE SITES ADJACENT TO SALIVARY GLANDS, ADJACENT TO THE THYROID, IN THE MEDIASTINUM AND IN MESENTERIC NODES. (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
H INDI	DATA REPORT GLP83009 STUDY T
EX: MALE H: 745	SACRIFICE STA
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(MILD) (PRESENT)
URINARY BLADDER	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE)
TESTES	(PRESENT)
ILEUM	(PRESENT)
PANCREAS	(PRESENT)
MOSE/TURBINATES	
BONE, STERNUM	(PRESENT)
BONE, FEMUR	

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
125 SEX: MALE DEATH: 745	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 326.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BONE, FEMUR	. (PRESENT)
BONE VERT	. (PRESENT)
ADREWAL	. NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT) (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (TRACE)
WHOLE BODY	(PRESENT)

	Appendix	J (cont.):	PATHOLOGY	TUCCI A TONY	ANIMAL DATA	
LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCNER-344	INSTITUTE OF RESEARCH PATH SERV GP SCHER-344	STUDY STAR	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 267 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	-NOV-89 7 INOGENIC
ANIMAL NUMBER: DATE OF DEATH:	ANIMAL MUNBER: 126/PRETEST= 126 SEX: MA Date of Death: 09-Sep-85 Study day of Death: 596	126 SEX: MALE OF DEATH: 596	DOSE GROUP: 2 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS STUDY WEEK OF DEATH: 86 TERMINAL	. 22	
.		ORGAR OB	S E R V A SEVERITY (ERVATIONS >> EVERITY GROSS FREE-TEXT COMMENTS	, , , , , , , , , , , , , , , , , , ,	
PERITONEAL CAV.		SS(ES)	PRESENT	MULTIPLE ANISED, DISSEMINATED, FIRM, WHITE, INTESTINE, PERISONEUM LIVER, AND DIAPHRAGM.	D, FIRM, WHITE, COVERING MESENTERY AND DIAPHRAGM. MESENTERIC ROOT	ENTERY
TESTES				FRICKENED WILL SCIRKHOUS FISSUE. RIGHT, 3 x 1.5CM	, sue.	
TESTES	GROUTH(S) / MA	MASS(ES)	PRESENT	BILATERAL, IRREGULAR, YELLOW/WHITE	//WHITE	
LIVER	`@	703700		FIRM, WHILE DIAPHRAGM, VENTRAL ABDOMINAL WALL, STOMACH. MASS, SPLEEN AND MESENTERY	. WALL, STOMACH. ALSO INVOLVES	S
TISSUE / MISTOP	TISSUE / MISTOPATHOLOGIC FINDINGS			DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ECIAL COMMENTS	
-CARDIOMYOPATH	-CARDIOMYOPATHY			NOT SPECIFIED(MILD)		
LUNGS	UNGS			NOT SPECIFIED(TRACE)		
LYMPH NODES			:	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES.	- a	
-RED BLOOD CEELS, HEM MEDULLARY SINUSES -HISTIOCYTIC INFILTRA -REACTIVE HYPERPLASIA	-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYT Medullary Sinuses -Mistiocytic infiltration, subcapsular an -Reactive Myperplasia	ERYTHROPHAGOCYTOSIS WITHIN R and Medullary Sinuses		MEDIASTINAL NODES. MESENTERIC NODES ARE MISSING. NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	C NODES ARE MISSING.	
LIVER	IVER	NN ND/OR CHOLANGIOFIBROSIS	:			

Appendix 5 (COMC.). E OF RESEARCH ERV GP STUDY STAR	KEPORT 009
EST# 126 SEX: MALE TUDY DAY OF DEATH: 596	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 86 TERMINAL BODY WEIGHT: 373.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	E O B S E R V
LIVER VACUOLIZATION -NEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -N- PRESENCE OF METASTATIC SARCOMA	DIFFUSE(MILD) NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
KIDNEYPROGRESSIVE RENAL DISEASE -N- PRESENCE OF METASTATIC SARCONA	NOT SPECIFIED(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
PROSTATE	NOT SPECIFIED(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
SEMINAL VESICLE	NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
EDIDIDYMIS	SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
TESTES	(PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
JEJUNUM	SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
PANCREAS	(PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY

Appendix Letterman army institute of research DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	b	(con)	(cont.):	PATS INDIVID STU	nt.): PATHOLOGY INDIVIDUI INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAM-84	INDIA L DATA	PATHOLOGY INDIVIDUAL ANIMAL DATA IDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER GLP83009	ANIMAL	DATA	PRINTE	PRINTED: 21-NOV-89 PAGE: 269
ANIMAL NUMBER: 126/PRETEST DATE OF DEATH: 09-SEP-85 STUDY DAY OF	. —	26 SEX: NAI DEATH: 596	26 SEX: MALE DEATH: 596	DOSE STUD	GROUP: 2	DEATH:	STUDY WEEK OF DEATH: 86 TERMINAL BODY WEIGHT: 373.	STATUS: SA	SACRIFICED MORIBUND BODY WEIGHT: 373.	KONIC/Z TR CARCI	S: SACRIFICED MORIBUND L BODY WEIGHT: 373.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	•	3	-	PIC TISSUE	O B S DISTR	E R V /	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	>> V	IL COMMENTS		
STOMACH					:	PEC1 F1ED	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)				
MAMMARY GLANDS	IE ACI	ES ES	ISSUE		NOT SF NOT SP NOT SP	SECIFIED SECIFIED SECIFIED	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)				
ABDOMINAL CAVITY	UNSP		: : :		THE SARC THE SARC METASTAS ABDOMINA DIFFEREN AND EXTE (PRESENT)	LANEOUS IRCONA I ASES OR NAL ORG	MISCELLAMEOUS TISSUE THE SARCOMA IS PRESENT IN LIV METASTASES OR IMPLANTS WITHIN ABDOMINAL ORGANS. IN ALL ARE DIFFERENTIATED OSTEOSARCOMA MAND EXTENSIVE MINERALIZATION.	IN LIVER WITHIN OR LL AREAS COMA WITH	AND THERE ON THE SU THE TUMOR ABUNDANT	MISCELLAMEOUS TISSUE THE SARCOMA IS PRESENT IN LIVER AND THERE ARE MULTIPLE METASTASES OR IMPLANTS WITHIN OR ON THE SURFACES OF MANY ABDOMINAL ORGANS. IN ALL AREAS THE TUMOR IS A WELL- DIFFERENTIATED OSTEOSARCOMA WITH ABUNDANT OSTEOID PRODUCTION AND EXTENSIVE MIMERALIZATION.	LE MANY ODUCTION
DIAPHRAGM	;	•			SECONDARY NEOPLASHE	LANEOUS ARY NEO	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY	ORGAN ABI	DOMINAL CA	V11Y	

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
IND STUDY START D	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
7/PRETEST# 127 SEX: MALE 5 STUDY DAY OF DEATH: 674	
GROSSORGAN OBSE	T 1 0 N
ENLARGED (SPLENOMEGALY) DISCOLORATION GROUTH(S) / MASS(ES) ATROPHIC / SMALL, UNILATERALY	9 x 2.5 x 1.5CM FOCAL, RED/YELLOW, .5CM DIAMETER, LATERAL ASPECT MULTIPLE, IREGULAR, .14CM DIAMETER, YELLOW/WHITE, BILATERAL RIGHT, 1.5 x 1CM
LESTES ENLARGED PRESENT LIVER ADNESION(S) LIVER DISCOLORATION PRESENT LIVER PROMINENT LOSULAR MARKINGS MILLO	LEFT, 2.5 x 1.5CM Diaphragh, Ventral Abdominal Wall Medial Lobe, Focal, Pale, Slightly Raised, .5cm diameter
Ea	DARK BROWN WITH MULTIPLE PINPOINT LIGHT BROWN FOCI
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	. NOT SPECIFIED (MODERATE) NOT SPECIFIED (MILD)
LUNGS	(PRESENT)
SPLEEN	(PRESENT)
LYMPH NODES	(PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATH(PATHOLOGY INDIVIDUAL ANIMAL DATA
TUTE OF RESEARCH N SERV GP -344 STUDY START DA	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
127 SEX: MALE DEATH: 674	SACRIFIC OF DEATH: 97
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	. MOT SPECIFIED(MODERATE) MULTI-FOCAL(MILD) MOT SPECIFIED(TRACE) (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED(MILD)
PROSTATE	. NOT SPECIFIED(TRACE)
SEMINAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	DIFFUSE(TRACE)
MAMMARY GLANDS	. MOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	. INFLAMMATORY INFILTRATE IS UNILATERAL AND INVOLVES NASO-LACRIMAL DUCT. FOCAL(TRACE)
BONE VERT	SPINAL CORD IN LUMBAR SEGMENT IS MISSING IN BOTH ORIGINAL AND
-N- LARGE GRANULE LYMPHOCYTE LEUKEMIA, METASTATIC	FOCAL INTILIBATION OF LELL 13 NOTES ()

Appendix Letterman army institute of research DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	J (cont.):	ART K	STUDY START DATES INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	PATHOLOGY INDIVIDU INDIVIDU INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-84	AL AN	EMAL DATA PRINTED: 21-NOV-89 PAGE: 272 STUDY TYPE: CHRONIC/2 YR CARCINGGENI	PRINTED: 21-NOV-89 PAGE: 272 IC/2 YR CARCINGGENI	1-NOV-85 72 Cinogeni
ANIMAL MUMBER: 127/PRETEST= DATE OF DEATH: 26-MOV-85 STUDY DAT	127 SEX: MALE OF DEATH: 674	ALE 4	DOSE GROUP: STUDY WEEK	2 SACR OF DEATH: 97	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 97 TERMINAL BOOT WEIGHT: 425.00 (GMS)	SACRIFICED MOR	18UND 425.00 (GM	•
TISSUE / MISTOPATHOLOGIC FINDINGS		B		S E R V A T	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	AL COMMENTS		
ADRENAL				(PRESENT)				
EYES & OPTIC N	INERAL I ZAT I ON	, SCLERA	10N	NOT SPECIFIED (PRESENT)	RESENT)			
UHOLE BODY	VID			(PRESENT)				
- COMPOUND RELATED INFLAMMATORY REACTION	NO.		SIM	OX NOT SPECIFIED (PRESENT)	SSUE			

	'ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY WUNBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 'R CARCINGGENIC
	28 SEX: MALE DOSE GROUP: 2 SACRIFICE STATUS: FIMAL SACRIFICE Death: 745 Study Week of Death: 107 Terminal Body Weight: 373.00 (GMS)
ORGAN MAME ACTUORDS / PHRASES SEVERITY	GROSS FREE-TEXT COMMENTS
ADMESTON(S) NODULE(S)	VENTRAL ABDOMINAL WALL SLIGHTLY PALE, 6CM DIAMETER
TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT PITUITARY GLAND DISCOLORATION PRESENT	RIGHT, 3 X 1.75CM BILATERAL, MULTIPLE VARÍABLY SIZED, YELLOW/BLACK Focal, dark red, .3cm diameter
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MILD)
LYMPH WODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -MEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S) -MEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MIMERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) DIFFUSE(MODERATE) NOT SPECIFIED(TRACE) DIFFUSE(MODERATE)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMIMAL VESICLE	

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
128 SEX: MALE Death: 745	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 373.00 (GNS)
TISSUE / HISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMIMAL VESICLEGENERALIZED ATROPHY	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	SES, NOT SPECIFIED (MODERATE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	RAL WOT SPECIFIED(MILD)

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

SPECIES: RAT/FISCHER-344	STUDY START	
ANIMAL NUMBER: 129/PI Date of Death: 05-feb-86	ETEST# 129 SEX: MALE STUDY DAY OF DEATH: 745	UP: 2 SACRIFICE STA
ORGAN NAME	GROSS ORGAN OB	* _
LIVER	ADMESION(S) PRESENT GROUTH(S) / MASS(ES) PRESENT	ENT MESENTERY ENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPAT	C M I C R O S C O P I C T I S S U NOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
-CARDIONYOPATHY	EARTCARDIONYOPATHY	NOT SPECIFIED(TRACE)
LYMPH NODESRED BLOOD CEELS, HEM MEDULLARY SINUSES -REACTIVE MYPERPLASIA	YMPH NODESRED SIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES -REACTIVE NYPERPLASIA	RBC'S AND PIGMENT NOTFED IN CERVICAL NODES. RBC'S AND PIGMENT NOTED IN MEDIASTINAL NODE. HIN NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AMD/OR CHOLANGIOFIBROSIS -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO WECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) S NOT SPECIFIED(MILD) TO NOT SPECIFIED(TRACE)
PROGRESSIVE RENAL DISEASE	MAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	1111s ASIA	MOT SPECIFIED(TRACE) WOT SPECIFIED(TRACE)
TESTES	ESTES	(PRESENT)

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	IND DATA CLP63
129 SEX: MALE DEATH: 745	EATH:
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	NOT SPECIFIED(MILD)
MANMARY GLANDS	NOT SPECIFIED(TRACE)
EYES & OPTIC M	NOT COECIFIED CODECCUT.

	Appendix J (cont.): I	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARNY INSTITUTE OF RIDIN OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH IN	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 130/PRETEST= 1 DATE OF DEATH: 05-FEB-86 STUDY DAY OF	130 SEX: MALE DAY OF DEATH: 745	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 384.00 (GMS)
ORGAN NAME KEYUORDS / PHRASE	8 C N C B	SERVATIONS >>>
	(S) (SPLENOMEGALY)) / MASS(ES)	
LIVER	ENLARGED Granular surface pr	PRESERT
TISSUE / HISTOPATHOLOGIC FINDINGS	M I C R O S C O P II C II S S C FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	PERPLASIA ("C" CELL, LIGHT CELL)	NOT SPECIFIED(TRACE)
HEARTCARDIOMYOPATHY MEDIAL MYPERTROPHY OF MUSCULAR ARTERIES	IUSCULAR ARTERIES	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
LUNGS	IOCYTE LEUKEMIA, METASTATIC	(PRESENT)
SPLEEN	HETASTATIC	(PRESENT)
LYMPH NODES	GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC Hyperplasia	REACTIVE HYPERPLASIA NOTED IN CERV:CAL NODES, METASTATIC LGLL NOTED IN MEDIASTINAL NODES. (PRESENT) NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND -CYSTIC DEGENERATION -HEPATOCYTIC DEGENERATIVE CHANGES (NON-NI	IMATORY REACTION HYPERPLASIA AND/OR CHOLANGIOFIBROSIS E CHANGES (NON-NECROTIC)	NOT SPECIFIED (PRESENT) IS NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAI/FISCHER-344	IN ART	DATA REPORT GLP83009
UMBER: 130/PRETEST= DEATH: 05-FEB-86 STUDY DAY OF	130 SEX: MALE DOS	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 364.00 (GMS)
: _	PIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERPERIACIMAR -N. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, ME	METASTATIC	NOT SPECIFIED(MODERATE) (PRESENT)
FROGRESSIVE REMAL DISEASE -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, ME	METASTATIC	NOT SPECIFIED(MODERATE) (PRESENT)
PROSTATE		NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMIMAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES		(PRESENT)
PANCREAS	METASTATIC	NOT SPECIFIED(TRACE) (PRESENT)
HAMMARY GLANDS	ACIMAR TISSUE	NOT SPECIFIED(MODERATE)
BONE, STERNUM	METASTATIC	(PRESENT)
BONE, FEMUR	METASTATIC	(PRESENT)

Appendix J	(cont.):	PATHOLOGY	AL ANIMAL DATA
DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344	STUDY STAR	STUDY START DATE: 23-JAM-84	S CLP83009
130/PRETEST# 1 EB-86 STUDY DAY OF	30 SEX: MALE Death: 745	DOSE GROUP: 2 STUDY WEEK OF DE	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 384.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	3 7 S C L C L C C L C C C C C C C C C C C C		OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BONE VERT	STATIC	(PRESENT)	(TM)
PITUITARY GLAND		(PRESENT)	WT)
EYES & OPTIC N	ALIZATION, SCLERA	•	NOT SPECIFIED (PRESENT)
WHOLE BODY		(PRESENT)	.HT)

APP. LETTERMAN ARNY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP	Appendix INSTITUTE OF RESEARCH	J (cont.): PA	INDIVIDUAL AND DATA REPORT GLP83009
SPECIES: RAT/FISCNER-344		STUDY START D 131 SEX: MALE DEATH: 745	STUDY TYPE: CHRONIC/2 SACRIFICE STATUS: FINAL SACRIFICE DEATH: 107 TERMINAL BODY WEIGHT: 340
ORGAN WANE	C G R O S S O R KEYWORDS / PHRASES	G A M O B S E	T I O N GROSS FR
LIVER SPLEEN ADREMAL TESTES	ADHESION(S) STRICTURE DISCOLORATION GROWTH(S) / MASS	PRESENT PRESENT PRESENT SS(ES) PRESENT	IT VENTRAL ABDONINAL WALL IT FOCAL, .3CM DIAMETER, IT FOCAL, .1CM DIAMETER, BLACK IT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / MISTOPATHOLOGIC FIN	C R O S C	OPIC TISSUE	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID			TISSUE IS MISSING
HEART			NOT SPECIFIED(TRACE)
LUNGS	UNGS		NOT SPECIFIED(TRACE)
LYMPH NODES	YMPH NODES	SES	DILATED SINUSES NOTED IN MESENTERIC NODES. NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATO -BILE DUCTULE EPITHELIAL HYP -NEPATITIS -NEPATOCYTE COALESCING MICRO	RY REACTI ERPLASIA VESICULAR	ON AND/OR CHOLANGIOFIBROSIS (FATTY) CHANGE LEADING TO	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) O MULTI-FOCAL(MILD)
KIDHEY	IDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(MILD)
SEMINAL VESICLE GENERALIZED AT	EMINAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES			:

PATHOLOGY INDIVIDUAL Appendix J (cont.):

Arrenata o Conc. J.	FAIRCACCE INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: \$PECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745 ST	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 340.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
PANCREAS ATROPHY -PERIARTERITIS MODOSA	FOCAL(MODERATE) NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
MEDIASTINUM	
DIAPHRAGM	MISCELLANEOUS TISSUE MOT SPECIFIED (PRESENT)

	INDI START DA	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 283 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
3/PRETEST# 6 STUDY DAY OF	133 SEX: MALE DOSE G DEATH: 745 STUDY	E STA	TUS: FINAL SACRIFICE NAL BODY WEIGHT: 400.00 (GMS)
ORGAN MANE < G R O S S O R G A N ORGAN MANE	B	A T J O N GROSS FR	
GLAND	S) PRESENT PRESENT PRESENT	RIGHT, ONE .2CM DIAMETER, YELLOW VENTRAL ABDOMINAL WALL DARK RED, .4MM DIAMETER	
C N I C R O S C O P TISSUE / NISTOPATHOLOGIC FINDINGS	1 C T 1 S C E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIA	>> SPECIAL COMMENTS
THYROID GLANDS		. (PRESENT)	
HEARTCARDIONYOPATHY		. NOT SPECIFIED(TRACE)	
LUNGS		. NOT SPECIFIED (TRACE)	
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -TELANGIECTASIS -FOCUS OF CELLULAR ALTERATION - CLEAR CELLS -BENIGN HYPERPLASTIC NODULE(S)	D/OR CHOLANGIOFIBROSIS Lic Ells	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) FOCAL(TRACE) FOCAL(MILD) NOT SPECIFIED(MILD)	
KIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED (MODERATE)	
PROSTATE		NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE)	

Appendix J	(cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGNIC
ANIMAL NUMBER: 133/PRETEST= 13 DATE OF DEATH: 05-FEB-86 STUDY DAY OF D	33 SEX: MALE DOS DEATH: 745 STU	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 400.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS		O B S E R V A T (O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES		NOT SPECIFIED(TRACE)
SKELETAL MUSCLE	¥	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
		THERE IS DIFFUSE INFILTRATION OF HISTIOCYTIC CELLS IN THE FASCIA ADJACENT TO THE PANNICULUS MUSCLE. THIS IS SIMILAR TO THE LESION THAT WAS OBSERVED AND CODED UNDER SKELETAL MUSCLE.
ADRENALLIPIDOSIS		NOT SPECIFIED(TRACE)
PITUITARY GLAND		(PRESENT)
EYES & OPTIC N	ALIZATION, SCLERA	NOT SPECIFIED (PRESENT)

APPO LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	P, PATH SEI	APPENCLA Of Research RV GP	# E		15	STUDY ST	- P	INDIVIDUAL ANIMAL STUDY NUMBER: T DATE: 23-JAN-84	ANIMAL JMBER: JAN-84		DATA REPORT GLP83009		STUDY	DY TYPE: CI	E: CHR	PRI ONIC/2	PRINTED: PAGE: C/2 YR C/	PRINTED: 21-NOV-89 PAGE: 285 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 134/PRETEST= DATE OF DEATH: 24-OCT-85 STUDY DAY OF	134, 24-00T-85	/PRETEST= STUDY DAY OF	DAY	: 50	134 SEX: MALE DEATH: 641	4 SEX: MALE EATH: 641	:	DOSE GROUP: 2 SACI	GROUP: 2 SACRI WEEK OF DEATH: 92	DEATH	SACRIFICE STATUS: SACRIFICED MORIBUND 92 TERMINAL BODY WEIGHT: 387.	ICE ST	E STATUS: SACRIFICED I	SACRIF 3DY WE	E STATUS: SACRIFICED MORIBUND TERMINAL BODY WEIGHT: 387.00 (GMS	OR 18UN 387	BUND 387.00 (GMS)	GNS)
ORGAN WAME KEYLORDS / PHRAS	*	GROSS OR	S PHR		R G A E		OBSERV.	· •	T T O	K S FREE-T	T I O N S >> GROSS FREE-TEXT CUMMENTS	INENTS		6 6 6 6 6 6 6 6 6	1 1 1 1 1	1 1 1 1 1		
187168 163168 163168 163168 176868 1768		ENLARGED (SPLENOMEGALY) ENLARGED ATROPHIC / SMALL, UNILATERALLY GROWTH(S) / MASS(ES) ADHESION(S) PROMINENT LOBULAR MARKINGS	(SPLE) (SPLE) (SPLE) (SPLE) (SPLE)	NOMEG NOMEG SSCES	ALY) NILAT)	ERALLY GS	TARESEN PRESENTATION OF THE SERVICE SE	•	6.5 x 1.5 left 2.5 x 1.5 left 2.5 left		· 표_4	LE VARIA	IS A 781	(ZED,	YELLOW	/WHITE		
C R C R I C R C TISSUE / HISTOPATHOLOGIC FINDINGS	A N I C R I C R I C R A I C R	M I C R O S C O FINDINGS) s c	0 6 1	0 1		SSUE		O B S O	B S E R V A	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S N S / (X11X) /	* SPECI	ואר כסו	OMMENTS			1
THYROID GLANDS	ICULAR CELI	L ADENOMA	•	:			•	:	(PRESENT)	£								
HEARTCARDIONYOPATHY								:	10T SP	EC I F 1 E	NOT SPECIFIED(TRACE)	æ						
LUNGS	MULAR LYMPI ORRHAGE	HOCYTE LEL	JKENIA	•	METASTATIC	:		:	(PRESENT) MULTI-FO	T) FOCAL	PRESENT) Multi-focal (present)	Ē						
SPLEEM	NULAR LYMPI	HOCYTE LEL	лкем 17	•	METASTATIC	110	•	:	(PRESENT)	2								
LYMPH NODES	RANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	HOCYTE LEU	KENIA	, A	METASTATIC	211		15	LGLL NOT	OTED 1	LGLL NOTED IN MEDIASTINAL NODES (PRESENT)	IST I NAL	NODE!	å				
-COMPOUND RELATED INFLAMMATORY REACTION -SILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOL-NEPATOCYTIC VACUOLIZATION -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -NECROSIS, NEPATOCYTIC, INDIVIDUAL CELLS	ATED INFLAI EPITMELIAI VACUOLIZATI DEGENERATIV	MMATORY RE L HYPERPLA ION YE CHANGES	EACTIC ISIA A	NEC I-NEC	R CHO	 LANG10	D/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED (PR NOT SPECIFIED(MOD MULTI-FOCAL(TACE NOT SPECIFIED(MOD)	ECIFIE ECIFIE FOCAL(ECIFIE	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) NOT SPECIFIED(MODERATE)	SENT) TATE)						

DATA	
ANIMAL	
INDIVIDUAL	
PATHOLOGY	
(cont.):	
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ppendix	

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DAT GLP
NUMBER: 134/PRETEST 134 SEX: MALE F DEATH: 24-OCT-85 STUDY DAY OF DEATH: 641	STATUS:
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT) FOCAL(TRACE)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MILD)
URINARY BLADDER	FOCAL (TRACE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESERT)
PANCREAS	DIFFUSE(MODERATE) DIFFUSE(MILD)
STOMACH	NOT SPECIFIED (PRESENT) FOCAL(MILD)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY IYPE: CHRONIC/2 YR CARCINOGENIC
134 SEX: MALE DEATH: 641	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 92 TERMINAL BODY WEIGHT: 387.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MOSE/TURBINATES	AL CAVITY, SINUSES, NOT SPECIFIED(MILD)
EYES & OPTIC N	. FOCAL(TRACE) NOT SPECIFIED(MILD)
WHOLE BODY	(Present)
DIAPMRAGM	MISCELLANEOUS TISSUE

(cont.): P INDI STUDY START DA	INDIVIDUAL ANI DATA REPORT GLP83009 s
35/PRETEST= 135 SEX: WALE 86 STUDY DAY OF DEATH: 745	2 SACRIF F DEATH: 107
ORGAN NAME C G R O S S O R G A N O B S E R V A T ESTES CROWIN(S) / MASS(ES) PRESENT R ADMESION(S) PRESENT V PRESENT V PRESENT V PRESENT V PRESENT P PRESENT P PRESENT P PRESENT P PRESENT R PRESENT R PRESENT R PRESENT R PRESENT R	T I O N S >> GROSS FREE-TEXT COMMENTS RIGHT, ONE .3CM DIAMETER, YELLOW VENTRAL ABDOMIANAL WALL RAISED, .6CM DIAMETER DARK RED, .5 x .6CM
** ** ** ** ** ** ** ** ** ** ** ** **	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MILD)
LUNGSOF PULMONARY ARTERIES -ALVEOLAR MEMORRHAGE	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
THYMUS	TISSUE IS MISSING
LYMPH MODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGH HYPERPLASTIC NODULE(S)	THE NODULE DESCRIBED GROSSLY IS A BENIGN HYPERTROPHIC NODULE. NOT SPECIFIED (MODERATE) HULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATECHRONIC PROSTATITIS -BENIGN HYPERPLASIA	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)

•	Appendix	ت ص	(cont.):	 ~	PAT	Pathology	INDIVIDUAL ANIMAL DATA	: ANIMAL	DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	OF RESEARCH IV GP		STUDY	e c	NDIVIDE STUE DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84	STUDY	PR TYPE: CHRONIC/	PRINTED: 21-NOV-89 PAGE: 289 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 135/PRETEST= 135 SEX: MAL Date of Death: 05-feb-86 study day of Death: 745	135/PRETEST= 1-86 STUDY DAY	135 S	135 SEX: MALE DEATH: 745	<u> </u>	DOSE STUD	DOSE GROUP: 2 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 385.00 (GMS)	STATUS: FIN	AL SACRIFICE WEIGHT: 385.	15.00 (GMS)
TISSUE / NISTOPATHOLOGIC FINDINGS	COLC FINDINGS	- - 0	PICTISSUE	S	SCE	0 B S D1STR	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	Y) / SPECIAL	COMMENTS	
TESTES						NO COURTEST!		WAS DESCRIB ON WAS PRESE AS PROBABLY IN THE PLAN	ED IN THE RIGH NT IN HISTOLOG A SMALL INTERS E OF SECTION.	IT TESTIS. NO IIC SECTIONS OF ITITIAL ADENOMA
ADRENAL	ATION, VACUOL	\TE0			ED		MULTI-FOCAL(MILD)			
PITUITARY GLAND			•			(PRESENT)				
EYES & OPTIC M	ION AND/OR MIN	RALI	RALIZATION, SCLERA	SCLER	ZATION, SCLERA		NOT SPECIFIED (PRESENT)	5		

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA

SPECIES: RAT/FISCHER-344	R-346	STUDY START		STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 136/PRETEST# DATE OF DEATH: 05-FEB-86 STUDY DAY OF	136/PRETEST# 05-FEB-86 STUDY DAY OF	136 SEX: MALE DEATH: 745	SE GROUP: 2 SACRIFICE STA UDY WEEK OF DEATH: 107 TERMI	TUS: FINAL SACRIFICE NAL BODY WEIGHT: 385.00 (GMS)
	KEYWORDS / PHRASE	8 O X V U V	S E R V A T I O M S >> SEVERITY GROSS FRE-TEXT COMMENTS	
LIVER LIVER TESTES TESTES PITUITARY GLAND	ADMESTON GROWTH(S) ATROUTH(S) GROWTH(S) ENLARGED	:S) Unilaterally :S)	PRESENT VENTRAL ABDOMINAL WALL PRESENT SENI-FIRM, WHITE, 2.5CM DIAMETER PRESENT RIGHT, 1.5 X 1CM PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW	YELLOW
TISSUE / NISTOPATHOLOGIC FINDINGS	: ^	7 S C O D I C O O S	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECI	AL COMMENTS
BRAIN	FACTION MECROSIS		CONSISTING OF NECROSIS, LARGE IRREGULAR BLOOD FILLED SPACES THAT ARE NOT LINED BY ENDOTHELIUM, AND AN ADJACENT INFLITRATION OF MONOWUCLEAR INFLAMMATORY CELLS, MANY OF WHICH ARE FILLED WITH BROWN GRANULAR PIGHENT, ALTHOUGH NO PITUITARY TUMOR CELLS ARE PRESENT IN THE SECTION AVAILABLE, THERE IS A LARGE PITUITARY ADDIACENT IN SECTION ATTHE BRAIN IS MOST LIKELY THE RESULT OF MECHANICAL PRESSURE EXERTED BY THE ADJACENT PITUITARY TUMOR.	T OF THE MEDULLA OBLONGATA AR BLOOD FILLED SPACES THAT ADJACENT INFILTRATION OF OF WHICH ARE FILLED WITH PITUITARY TUMOR CELLS ARE RE IS A LARGE PITUITARY LESION IN THE BRAIN IS PRESSURE EXERTED BY THE
-I-PITUITARY TUMOR INVASION	INVASION		(PRESENT)	
THYROID GLAWDS	LL HYPERPLASIA (רו, נופאד כבו	L) NOT SPECIFIED(TRACE)	
-CARDIOMYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	OF MUSCULAR ARTI	E E E E E E E E E E E E E E E E E E E	NOT SPECIFIED(NILD) NOT SPECIFIED(TRACE)	
LUNGS	PULHONARY ARTERII		NOT SPECIFIED(TRACE)	
LYMPH MODES			REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES.	L NODES.
LIVER				

Appendix J E OF RESEARCH ERV GP	
	CE STA
TISSUE / NISTOPATHOLOGIC FINDINGS	C T I S S U E D I S T I O N S >> C T I S S U E D I S T I O N S P C I A C COMMENTS
LIVER	D/OR CHOLANGIOFIBROSIS NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) HILIC CELLS SECONDARY MEOPLASM FROM ORGAN ABDOMINAL CAVITY
FROGRESSIVE RENAL DISEASE	
PROSTATE	
TESTES	(PRESENT)
-DILATATION (ECTASIA) OF DUCTS AND DUCTULES	NOT SPECIFIED (PRESENT)
-LIPIDOSIS -CORTICAL NODULAR HYPERPLASIA	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	RALIZATION, SCLERA MOT SPECIFIED (PRESENT)

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
Dendix J

LETTERNAM ARMY INSTITUTE OF RESEARCH STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 ANIMAL NUMBER: 136/PRETEST 136/PRETES	- APPOND TRILLIAB DIRECTORION APPOND TO THE TRILLIAB DIRECTORION OF THE TRILLIAB D
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App. Letterman army institute of Ri DIV of Res supp, path serv GP	Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	J (cont.):	PATHOLOGY IN INDIVIDUAL ANIMAL DA STUDY NUMBER: GL	INDIVIDUAL ANIMAL DATA REPORT GLP83009	DATA PRINTED: 21-NOV-89 PAGE: 305
SPECIES: RAT/FIS 	SPECIES: RAT/FISCHER-344	148 SE	STUDY START DATE: 23-JAN-84 X: MALE DOSE GROUP: 3 SACRI X: 604	FICE STATU	Z .
ORGAN NAME	ORGAN NAME KEYWORDS / PHRASES		SERVATIONS Y	. 5	(AES) 00-000
TESTES	GROUTH(S) / MASS			WHITE, .3 X .4CM, RIGHT POSTERIOR ASPECT LEFT, MULTIPLE VARIABLY SIZED, YELLOW	ASPECT LOW
TISSUE / MISTOPATHOLOGIC FIN	C R O S DINGS	P I C 1 I S	SUE OBSER	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	COMMENTS
THYROID GLANDS -B- PARA-FOLLIC	HYROID GLANDS		(PRESENT)		
PARATHYROID	PARATHYROID		•	TISSUE IS MISSING There is a large thyroid adenoma present. Could not be found.	RESENT. PARATHYROID TISSUE
HEART	EARTCARDIOMYOPATHY		NOT SPECIFIED(MILD)	IED(MILD)	
LUNGS	UNGS			NOT SPECIFIED(TRACE)	
SPLEEN			CONTAINS CONTAINS CONTAINS CONTAINS	EXTRAMEDULLARY NEMATOPOIESIS IS EXCESSIVE. CONTAINS NUMEROUS HISTIOCYTIC CELLS THE CHA UNKNOWN. SEE COMMENT CONCERNING BONE MARRO	EXTRAMEDULLARY HEMATOPOIESIS IS EXCESSIVE. ALL BONE MARROW CONTAINS NUMEROUS HISTIOCYTIC CELLS THE CHARACTER OF UHICH IS UNKNOWN. SEE COMMENT CONCERNING BONE MARROW FOR ADDITIONAL
-EXTRAMEDULLARY HEMATOPOIESIS	HEMATOPOIESIS		INFORMATION. NOT SPECIFIE	INFORMATION. NOT SPECIFIED (PRESENT)	
LIVER	YPERPLASI	A AND/OR CHOLANGIOFIBRO	HOT HULL	SPECIFIED(MILD) 1-FOCAL(TRACE) SPECIFIED (PRESENT)	
KIDNEYPROGRESSIVE RENAL DISEASE	NAL DISEASE		NOT SPECIFIED (MILD)	IED(M1LD)	
PROSTATE					

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
INDIVIDU Stud T DATE:	DATA REPORT GLP83009
48/PRETEST# 148 SEX: MALE 85 STUDY DAY OF DEATH: 696	SACRIFICE STATU
J S S I L S J A	S 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	(PRESENT)
MANNARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
BOME, STERMUM	MYELDID MISTIOCYTOSIS IS A PROVISIONAL DIAGNOSIS. THIS LESION WAS PRESENT IN ALL SECTIONS OF BONE MARROW. IT CONSISTED OF NUMEROUS HISTIOCYTIC CELLS IN THE BONE MARROW. NO MICRO-ORGANISMS WERE DETECTED BY GMS, PAS, GIEMSA OR GOODPASTURE STAINS. CELLS CONTAINED DIASTASE RESISTANT PAS-POSITIVE MATERIAL. CHARACTER OF LESION IS UNKNOWN. CONSULT WITH MIPPATHOLOGISTS DID NOT CLARIFY IF THIS LESION IS NEOPLASTIC
-MYELDID HISTIOCYTOSIS	UK INTIAMATORY. Not specified (present)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
BONE VERT	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 148/PRETEST= 148 SEX: MALE DOSE GI DATE OF DEATH: 18-DEC-85 STUDY DAY OF DEATH: 696 STUDY	148 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 696 STUDY WEEK OF DEATH: 100 TERMINAL BODY WEIGHT: 333.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	RALIZATION, SCLERA NOT SPECIFIED (PRESENT)

DEATH: 606 STUDY WEEK OF DEATH: 87 TERMINAL BODY WEIGHT R G A N O B S E R V A T I O N S >> NARKED LEFT 2.5 X 1.5CM RARKED LEFT 2.5 X 1.5CM WARRED LEFT 2.5 X 1.5CM WARRED LEFT 2.5 X 1.5CM WARRED LEFT 2.5 X 1.5CM WATEGULAR, WHITE, COALESCING, HEMORRHAGI UNILATERALLY MODERATE 1 X .5CM, RIGHT PRESENT IRREGULAR, WHITE, COALESCING, HEMORRHAGI UNILATERALLY MODERATE 1 X .5CM, RIGHT PRESENT LEFT 1 NGUINAL REGION, 7 X 6CM, FIRM, WHI P I C T I S S U E O B S E R V A T I O N S >> NOT SPECIFIED (TRACE) NOT SPECIFIED (MILD)	: PA INDIV S START DAT	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: C
KEYWORDS / PHRASES KEYWORDS / PHRASES ENLARGED GROWTH(S) / MASS(ES) ATROPHIC / SMALL, UNILATERALLY MODERATE SUBCUTANEOUS MASS HISTOPATHOLOGIC FINDINGS LIACRIM ATROPHY AT	149 SEX: MALE DEATH: 606	OUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND EEK OF DEATH: 87 TERMINAL BODY WEIGHT: 484.00 (GMS)
ENLARGED GROUTH(S) / MASS(ES) PRESENT ATROPHIC / SMALL, UNILATERALLY MODERATE SUBCUTANEOUS MASS ** M I C R O S C O P I C T I S S U E ** M I C R	CEROSSORGAN ORGAN ORSE	
HISTOPATHOLOGIC FINDINGS L LACRIM ATROPHY WYOPATHY WYOPATHY WOOPATHY WOOPATHY WYOPATHY WOOPATHY WO	ENLARGED GROUTN(S) / MASS(ES) ATROPHIC / SWALL, UNILATERALLY SUBCUTANEOUS MASS	LEFT, 2.5 x 1.5CM IRREGULAR, WHITE, COALESCING, HEMORRHAGIC, LEFT 1 x .5CM, RIGHT LEFT INGUINAL REGION, 7 x 6CM, FIRM, WHITE
L LACRIM ATROPHY MYOPATHY MYOPATHY MYOPATHY MOT SPECIFIED WOT SPECIFIED C PROSTATITIS WOT SPECIFIED WOT SPECIFIED	S	O B S E R V A T I O N S -> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
WYOPATHY TION, CHRONIC TION, CHRONIC UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS DEGENERATION HYPERPLASIIC MODULE(S) SSIVE RENAL DISEASE NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(NOT SPECIFIED(TRACE)
TION, CHRONIC UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED OF CELLULAR ALTERATION - BASOPHILIC DEGENERATION HYPERPLASTIC NODULE(S) SSIVE REMAL DISEASE C PROSTATITIS NOT SPECIFIED HYPERPLASIA NOT SPECIFIED	DIOMYOPATHY	NOT SPECIFIED(MILD)
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (OF CELLULAR ALTERATION - BASOPHILIC NOT SPECIFIED HOT SPECIFIED HYPERPLASTIC NODULE(S) FOCAL(TRACE) FOCATITIS NOT SPECIFIED (OF PROSTATITIS NOT SPECIFIED	RCTION, CHRONIC	NOT SPECIFIED(TRACE)
SSIVE RENAL DISEASE C PROSTATITIS HYPERPLASIA	E DUCTULE EPITHELIAL HYPERPLASIA AND/ US OF CELLULAR ALTERATION - BASOPHILI TIC DEGENERATION	NOT SPECIFIED(MILD) FOCAL(TRACE) NOT SPECIFIED (PRESENT) FOCAL(TRACE)
C PROSTATITIS HYPERPLASIA	KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
	C PROSTATITIS Hyperplasia	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)

Appendix	ם	(cor	(cont.):		PAT	HOLOGY	ONI .	PATHOLOGY INDIVIDUAL ANIMAL DATA	NI A	NIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		'n	TUDY ST	~	STUI DATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84	AL DATA R: GLP8 84	A REPORT 83009		STUDY	TYPE: CHRO	PRINTED: 21-MOV-89 PAGE: 309 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	-NOV-89 9 INOGENIC
ANIMAL NUMBER: 149/PRETEST= DATE OF DEATH: 19-SEP-85 STUDY DAY OF	· —	149 SEX: MAI DEATH: 606	149 SEX: MALE DEATH: 606		DOSE	DOSE GROUP: 3 STUDY WEEK OF DEA	3 F DEATH	SACRIFICE H: 87 TE	CE STA TERMI	TUS: SACRIFICI NAL BODY WEIG	ED 180	RIBUND 484.00 (GMS)	
TISSUE / MISTOPATHOLOGIC FINDINGS	: •		7 I S S U E	6	O E	8 O	S E R V	OBSERVATIONS >>	N S N I	SPECIAL	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	6 9 9 9 9 1 1 1 1	: : : :
TESTES						(PRESENT)	ENT)						
-ENTERITIS, SUBACUTE		•			•		I - FOCAL	MULTI-FOCAL(MILD)					
SKIR						THE FIBR	FIBROMA Ent)	NAS LOC	ATED 1	N THE LES		. REGION.	

STUDY STAR	2 2
MALE 736	P: 3 SACRIFICE STATU K OF DEATH: 106 TERMINA
R G A N O B S E SEVE	
ULCER(S) / EROSION(S) SUBCUTANEOUS MASS DEOMINENT 1 DELL'AR MARKINGS	T LEFT REAR HOCK, CHRONIC, .SCM DIAMETER T RIGHT AXILLA, 1CM DIAMETER
T GRANILAR SURFACE ENLANGED S	7 X X 1 CM - EET
GROWTH(S) / MASS(ES) Atrophic / Small, unitaterally	
<pre><</pre>	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LACRIMAL GLAND	MULTI-FOCAL(TRACE)
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LYMPH WODES	NOT SPECIFIED (PRESENT)
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BEPATOCYTIC VACUOLIZATION -PERIPORTAL MONONUCLEAR CELLULAR INFILTRATION	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE)
KIDNEY	

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
ppendix J

Appendix J (cont.)	:.): PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TART DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOG
50/PRETEST# 150 SEX: 86 STUDY DAY OF DEATH:	LE DOSE GROUP: 3 STUDY WEEK OF DEATH:
TISSUE / MISTOPATHOLOGIC FINDINGS	T I S S U E O B S E R V A T I O N S >> T I S S U E DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MARKED)
PROSTATE	NOT SPECIFIED (MODERATE) NOT SPECIFIED (TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
	TUBULAR ATROPHY WAS SEVERE IN TESTIS THAT HAD NO INTERSTITIAL
-TUBULAR ATROPHY -B- INTERSTITIAL CELL ADENOMA -PERIARTERITIS NODOSA	CELL ADENORA. NOT SPECIFIED(MARKED) (PRESENT) NOT SPECIFIED (PRESENT)
PANCREAS	
SKIN	SECTION #21 AND IS A BASAL CELL CARCINOMA. THE LESION IS ON SECTION #21 AND IS A BASAL CELL CARCINOMA. THE LESION NOTED GROSSLY ON THE LEFT HOCK IS ON SECTION #22 AND CONSISTS OF FIBRING-MECROTIC EXUDATE. NOT SPECIFIED(MARKED) (PRESENT)
MAMMARY GLANDS	SUE NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
- FOCUS OF CELLULAR ALTERATION, VACUOLATED	
PITUITARY GLAND	

Appendix Letterman ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	TITUTE O ATH SERV ER-344	Appendix J of RESEARCH	X 5	ם	(cont.):	E.): OY STA	I	Ont.): PATHOLOGY INDIVI INDIVIDUAL ANIMAL DATA REPO STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	PATROLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-64	STUB	L DATA	IMAL DATA PRINTED: 21-NOV-69 PAGE: 312 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC	D: 21- E: 312 CARCI	NOV-89 NOGENIC
ANIMAL NUMBER: 150/PRETEST# 150 SEX: MALE DATE OF DEATH: 27-JAN-86 STUDY DAY OF DEATH: 736	150/F JAN-86	150/PRETEST= N-86 STUDY DAY OF	DAY 0		50 SEX: MALE DEATH: 736	HALE 36	909 STU	DOSE GROUP: 3 STUDY WEEK OF DEA	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 368.00 (GMS)	STATUS: FI	INAL SACR	1FICE 368.00	(GMS)	
TISSUE / HISTOPATHOLOGIC FINDINGS	0L0GIC F	COURT OF COURTS	S	1	0	-	P . C . T . S S U E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> Y) / SPECIA	COMMEN	\$ L		•
PITUITARY GLAND .							•	(PRESENT)	5					
EYES & OPTIC N	FORMATI	O/ ONV NO		ERALI	24710	N. SCI	FRA	TOM	WOT SPECIFIED (PRESENT)	2				

Appendix J (cont.): P. E of RESEARCH INDIER GP STUDY START DA	INDIVIDUAL DATA REPORT GLP83009
51 SEX: MALE DEATH: 681	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 98 TERMINAL BODY WEIGHT: 372.00 (GMS)
ORGAN WAME C G R O S S O R G A W O B S E R V S SEVERITY SPLEEN ENLARGED (SPLENOMEGALY) MODERATE SPLEEN GRANULAR SURFACE MARKED MARKED	SERVATIONS >>> SEVERITY GROSS FREE-TEXT COMMENTS MODERATE PRESENT MARKED 8 X 6MM, DARK RED
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLAMDS	(PRESENT)
HEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
THYMUS	TISSUE IS MISSING SEARCH OF WET TISSUE AND IMBEDDING TISSUES THAT SHOULD HAVE CONTAINED THYMUS FAILED TO DEMONSTRATE THAT TISSUE.
SPLEEN	(PRESENT)
LYMPH NODES	(PRESENT)
LIVER	NOT SPECIFIED(MILD) (PRESENT)
KIDNEY	

J (cont.): STUDY STAR	INDIVIDO DATA REPOR GLP83009
ANIMAL NUMBER: 151/PRETEST= 151 SEX: WALE DOSE ODATE OF DEATH: 03-DEC-85 STUDY DAY OF DEATH: 681 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 98 TERMINAL BODY WEIGHT: 372.00 (GMS)
# 9	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDWEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
PANCREAS	NOT SPECIFIED(WILD)
-DILATATION (ECTASIA) OF DUCTS AND DUCTULES	NOT SPECIFIED (PRESENT)
- FOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED(MILD)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

1016 N SE -344	(cont.): Pi	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAM-64 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ANIMAL NUMBER: 152/PRETEST= 1 DATE OF DEATH: 16-JAN-86 STUDY DAY OF	52 SEX: MALE DEATH: 725	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 316.00 (GMS)
ORGAN NAME KEYLORDS / PHRAS	ORGAN OBSERVA	A T I O N S >> GROSS FREE-TEXT COMMENTS
GLAND ENLARGED		. 9CH DIAMETER
A TISSUE / NISTOPATHOLOGIC FINDINGS	OPIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART		NOT SPECIFIED (MODERATE)
LIVER	ND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
FINDER		NOT SPECIFIED(MODERATE)
PROSTATE		NOT SPECIFIED (MODERATE) NOT SPECIFIED (MILD)
SEMIMAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES		FOCAL (TRACE)
MOSE/TURBINATES		ADJACENT TO NASAL LACRIMAL DUCT. FOCAL(MILD)
ADRENAL	11710	NOT SPECIFIED(MILD)
PITUITARY GLAND		

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J (cont.):
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LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	IN STUDY START	INDIVIDUAL ANIMAL DATA REPORT Study Number: GLP83009 Study Start Date: 23-Jam-64	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 152/PRETEST= 1 DATE OF DEATH: 16-JAN-86 STUDY DAY OF	152 SEX: MALE F DEATH: 725	DOSE GROUP: 3 STUDY WEEK OF D	ANIMAL NUMBER: 152/PRETEST# 152 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED HORIBUND DATE OF DEATH: 16-JAM-86 STUDY DAY OF DEATH: 725 STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 316.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OPIC TISSUE	U E O B S E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PITUITARY GLAND		(PRESENT)	

LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH BIV OF RES SUPP. PATM SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR	INDIVIDUAL ANIMAL STUDY WURBER: T DATE: 23-JAN-84	•	DATA REPORT GLP83009	STUDY T	PRINTED: 21-NOV-89 PAGE: 317 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	NTED: 21-NOV-89 PAGE: 317 YR CARCINGGENI
ANIMAL NUMBER: 153/ DATE OF DEATH: 27-JAN-86	• 🕰 •	153 SEX: MALE OF DEATH: 736	DOSE GROUP: 3 STUDY WEEK OF D		SACRIFICE STATUS: FINAL SACRIFICE N: 106 TERMINAL BODY WEIGHT:	E STATUS: FINAL SACRI TERMINAL BODY WEIGHT:	SACRIFICE STATUS: FINAL SACRIFICE EATH: 106 TERMINAL BODY WEIGHT: 355.00 (GMS)	(GMS)
ORGAN NAME	<pre><< G R O S S O R KEYWORDS / PHRASES</pre>	8 O Z V 5	S E R V A T SEVERITY G	T I O N S GROSS FREE-	T I O N S >> GROSS FREE-TEXT COMMENTS			
SPLEE TESTES TESTES	ENLARGED (SPLENOMEGALY) ENLARGED GROWTH(S) / MASS(ES)		MILD 5 PRESENT 8	5 X 1CM BILATERAL, BILATERAL,	S X 1CM BILATERAL, LEFT 3 X 1.75CM, BILATERAL, YELLOW AND RED	SCM, RIGHT :	RIGHT 2 X 1.5CM	
TISSUE / HISTOPAT	C R O S C TISSUE / MISTOPATHOLOGIC FINDINGS	0 P I C T I S	o ans	B S E R V	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	>> / SPECIAL 0	COMMENTS	
THYROID GLANDS	HYROID GLANDS		ld)	(PRESENT)				
HEART	-CARDIONYOPATHY -MEDIAL MYPERTROPHY OF MUSCULAR ARTERI	1ES		NOT SPECIFIC	SPECIFIED (TRACE) SPECIFIED (TRACE)			
LUNGS	UNGS)#	NOT SPECIFIED(TRACE)	ED(TRACE)			
SPLEEN	PLEEN)N	JT SPECIFII	NOT SPECIFIED(MODERATE)			
-BILE DUCTULE EPITHELIAL H -BERTOCYTIC VACUOLIZATION -NECROSIS -CYSTIC DEGENERATION -BENIGN HYPERPLASTIC NODUL	1VER	AND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED(MODE MULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE) NOT SPECIFIED (PRE NOT SPECIFIED (TRACE)	NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE)			
KIDNEY	ENAL DISEASE		3N	T SPECIFIL	NOT SPECIFIED (MODERATE)			

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

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T 153 SEX: MALE DY DAY OF DEATH: 736	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 355.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NO MAMMARY GLAND TISSUE COULD BE FOUND ASSOCIATED WITH SKIN SPECIMENS SUBMITTED. THE SMALL AMOUNTS OF MAMMARY TISSUE PRESENT IN CERVICAL SUBCUTANEOUS TISSUES ADJACENT TO SALIVARY GLANDS IN SECTION #4 ARE NORMAL.
MOSE/TURBINATES	INFILTRATE IS BILATERAL AND ADJACENT TO NASO-LACRIMAL DUCT. NOT SPECIFIED(TRACE)
ADREMAL	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	ALL OF THE LENS EXCEPT THE CAPSULE WAS LOST DURING PROCESSING. ERA NOT SPECIFIED (PRESENT)

DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR		STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 154/PRETEST= DATE OF DEATH: 27-JAN-86 STUDY DAY OF	154 SEX F DEATH:	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STATUS' WEEK OF DEATH: 106 TERMINAL BODY WEIGHT:	E STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT: 360.00 (GMS)
ORGAN WAME CETUORDS / PHRASTESTES GROUTH(S) / MASS	ES AN OB	SERVATIONS SYSTEMENTS SEVERITY GROSS FREE-TEXT COMMENTS PRESENT YELLOW, MULTIPLE, VARIABLY SIZED, BILATERAL	12ED, B1LATERAL
C R (S C O S C O	SUE OBSERVATIONS >>	SPECIAL COMMENTS
TRACHEA	S	FOCAL(TRACF)	
HEART	MUSCULAR ARTERIES	NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE)	
-PERIBROWCHIAL LYMPHOID MYPERPLASIA	D HYPERPLASIA	NOT SPECIFIED (TRACE)	
-BILE DUCTULE EPITHELIAL HYPERPLASIA AN-HEPATITIS -NEPATOCYTIC VACUOLIZATION	TPERPLASIA AN		HEPATOCYTIC VACUOLIZATION IS EXTENSIVE IN ONE LOBE (SLICE) OF LIVER BUT MINIMAL IN THE OTHER TWO. NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
-MEPATOCYTE COALESCING MICROVESICULAR (NECROSIS AND MIMERALIZATION KIJAEYPROGRESSIVE REMAL DISEASE	MICROVESICULAR (FATTY) CHANGE LEADING TO ZATION EASE	JING TO MULTI-FOCAL(TRACE)	
PROSTATE		NOT SPECIFIED(TRACE)	
TESTES	ADENOMA	(PRESENT)	

(CONT.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84	154 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE F DEATH: 736 STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 360.00 (GMS)	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ED NOT SPECIFIED(TRACE)	(PRESENT)	BALTZATION SCIERA NOT SPECIFIED (PRESENT)
ğ	54 SE Death				A 1 1 7 A
 C	7 OF	; •			
	ANIMAL NUMBER: 154/PRETEST= DATE OF DEATH: 27-JAN-86 STUDY DAY OF	TISSUE / MISTOPATHOLOGIC FINDINGS	DREMAL	PITUITARY GLAND	EYES & OPTIC M

DATA
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Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
55 SEX: MALE DEATH: 736	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 405.00 (GM:)
C G R O S S O R G A M O 8 KEYWORDS / PHRASES	S E R V A T I O N S >>> SEVERITY GROSS FREE-TEXT COMMENTS
TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	NBLY SIZED, YEL
C M I C R O S C O P I C T I S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGSOF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MARKED)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	

			Appendix J	ж С		(cont.):	•••	PAT	HOLOGY	IUNI	VIDUA	PATHOLOGY INDIVIDUAL ANIMAL DATA	INI	DATA		
LETTERM DIV OF SPECIES	RES SUF	LETTERMAN ARMY INSTITUTE OF REDIT OF RESIDENCE SUPP, PAIN SERV GPSPECIES: RAIVER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	=		TUDY	START	STUI DATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	NL DATA 1: GLP831 14	REPORT 009	S	YD Y TY	PE: CHRON	PRINTED PAGE 1C/2 YR	PRINTED: 21-NOV-89 PAGE: 322 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL DATE OF	DEATH	15: 27-JAN-84	ANIMAL NUMBER: 155/PRETEST# 155 SEX: MALE DATE OF DEATH: 27-JAN-86 STUDY DAY OF DEATH: 736	AY OF		. HAL 736	ш	DOSE	DOSE GROUP: 3 STUDY WEEK OF DEAT!	DEATH:	SACRIFICE 106	STATUS:	FINAL BODY W	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT:	E 405.00 (GMS)	5 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE EATH: 736 STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 405.00 (GMS)
T I S S U E	/ HISTC	TISSUE / NISTOPATHOLOGIC FINDINGS	COLC FINDINGS	0) s	P . C . T . S S C E	-	8	SUE	0 8 9	E R V	A T 1 0 1 (SEVER11	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	CIALC	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	• • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
PITUITARY GLAND -B- ADENOMA	RY GLAN ENOMA					:	;		(PRESENT)	MT.)						
MEDIAST -CHRON	INUM .	EDIASTINUM	MEDIASTINUM			:			MISCELLANEOUS TISSUE NOT SPECIFIED(MILD)	MISCELLANEOUS TISSUE Not Specified(MILD)	TISSUE					

Appendix Letterman army institute of research Div of res supp, path serv gp species: rat/fischer-344	AD INSTITUTE OF , PATH SERV (SCHER-344	Appendix of Research	ם	(cont.):	(cont.):	PATE:	PATHOLOGY DIVIDUAL ANIMAL STUDY NUMBER: DATE: 23-JAN-84	•	At.	ANIMA	IIMAL DATA P	IMAL DATA PRINTED: 21-NOV-89 PAGE: 323 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	PRINTED: 21-NOV-89 PAGE: 323 C/2 YR CARCINGENII
AMIMAL NUMBER: 156/PRETEST# DATE OF DEATH: 27-JAN-86 STUDY DAY O	156/PRETEST= 27-JAN-86 STUDY	ETEST# STUDY DAY OF		56 SEX: MALE DEATH: 736	HALE '36	,	DOSE GROUP: 3 STUDY WEEK OF	EATH	RIFICE S	TATUS: F	SACRIFICE STATUS: FINAL SACRIFICE 106 TERMINAL BODY WEIGHT:	FICE 337.00 (GNS)	GMS)
ORGAN NAME	C G R O S S O KEYWORDS / PHRASE	G R O S S O R KEYWORDS / PHRASES	O R	Z V U	69			GROSS FREE-TEXT COMMENTS	COMMENT	v» ،			
MANNARY GLAND TESTES TESTES PAUS/FET KIDNEY KIDNEY ADREMAL		PROMINENT ATROPHIC / SWALL, UN GROWTH(S) / MASS(ES) GROWTH(S) / MASS(ES) DISCOLORATIOM GRAWULAR SURFACE ENLARGED, UNILATERAL	SMALL, MASS(E OM RFACE	UNILATERALLY ES) ES) RALLY	BALLY		YELLOW, A 1.5 X 1CM 1.5 X 1CM REAT, WAR TAN, BILA BILATERAL RIGHT, 7C	YELLOW, AXILLARY AND INGUINAL AREA 1.5 X 1CM, RIGHT LEFT, YELLOW REAR, WART-LIKE, YELLOW, CRUSTY TAN, BILATERAL RIGHT, 7CM DIAMETER, MOTTLED RED A 5.5CM DIAMETER, RED AND BLACK	IY AND IN TYELLOW THETER, MO RED AND	GUINAL A I, CRUSTY ITTLED RE BLACK	YELLOW, AXILLARY AND INGUINAL AREA 1.5 X 1CM, RIGHT LEFT, YELLOW REAR, WART-LIKE, YELLOW, CRUSTY TAN, BILATERAL BILATERAL RIGHT, 7CM DIAMETER, MOTTLED RED AND BLACK SCH DIAMETER, RED AND BLACK	×	
C R I C R I STOPATHOLOGIC FINDING	A H I C R	M I C R O S FINDINGS	0 0	0 -	-	SSUE	O B S DISTR	E R V A 1	EVERITY)	/ SPECI	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	<u>.</u>	
HEART							NOT SI	NOT SPECIFIED(MILD)	וורס)				
THYMUS	NDOCRINE ORI	ORIGIN, NOT OTHER	OTHERN	WISE SPECIFIED	CIFIED		RESEMBLE: AN ADENO! ORIGIN C. (PRESENT)	THERE IS A SMALL ADENOMA IN THE THYMUS. RESEMBLES A THYROID PARAFOLLICULAR CELL AN ADENOMA OF THE PARATHYROID GLAND. C.I ORIGIN CANNOT BE RULED OUT. PRESENT)	LL ADENOM FROID PAR THE PARAT	IA IN THE IAFOLLICLICH (HYROID (THYMUS.	THERE IS A SMALL ADENOMA IN THE THYMUS. HISTOLOGICALLY IT RESEMBLES A THYROID PARAFOLLICULAR CELL (C-CELL) ADENOMA OR AN ADENOMA OF THE PARATHYROID GLAND. CAROTID OR AORTIC BOD ORIGIN CANNOT BE RULED OUT.	ICALLY IT ADENOMA OR AORTIC BODY
LIVER	EPITHELIAL H ACUOLIZATION RATION	YPERPLASI	A AND	OR CHO	LANGIOF	IBROSIS	HOLTI MULTI NOT SI	NOT SPECIFIED(MILD) HULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT)	(TE) (CE) (PRESENT)				
FIDNEYPROGRESSIVE RENAL DISEASE	ENAL DISEASE		:	•			NOT S	NOT SPECIFIED(MARKED)	(ARKED)				
PROSTATE	PROSTATITIS IYPERPLASIA						: NOT SI	SPECIFIED(MILD) SPECIFIED(TRACE)	(1LD)				

Appendix J (cont.): PATH(ITUTE OF RESEARCH TH SERV GP STUDY STUDY START DATE: 2	IN PAT GLP
156 SEX: MALE F DEATH: 736	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 337.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTESTUBULAR ATROPHY - 0- INTERSTITIAL CELL ADEMOMA - PERIARTERITIS MODOSA	THE RIGHT (ATROPHIC) TESTIS CONTAINS NO INTERSTITIAL CELL ADENOMA. IT HAS SEVERE TUBULAR ATROPHY AND PERIARTERITIS. Not specified(marked) (present)
PANCREAS	FOCAL (MODERATE)
TONGUE	MULTI-FOCAL (MODERATE)
SKINACANTHOSIS - HYPERKERATOSIS	LESION ON THE REAR FEET IS ACANTHOSIS AND HYPERKERATOSIS. NOT SPECIFIED (HODERATE) NOT SPECIFIED (MODERATE)
MAMMARY GLANDS	DIFFUSE(MARKED) Not Specified (present)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
ADREMAL	(PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

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STATE STAT		Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
NOTICE EPITHELIAL 197 PRETERT	LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	INDIVIDU STUD STUDY START DATE:	DATA REPORT GLP83009
AMERICA CONTICAL MECROSIS, CORTICAL MECROSIS, CORTICAL MECROSIS, CORTICAL GRAULARGED GROUTH(S) / MASS(ES) AND CORTICAL CANULAR GROUTH(S) / MASS(ES) CASULAR ONYOPATHY INTERPRETATION INTERPRETATION DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS OF CELLULAR AITERATION - EOSINOPHILIC CELLS ESSIVE REMAL DISEASE CT. CHROWIC WITHOUT MIMERALIZATION	ANIMAL NUMBER: 157	157 SEX: MALE F DEATH: 736	FICE STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT:
MECROSIS, CORTICAL RESENT GRANULAR SURFACE GROWTH(S) / MASS(ES) A M I C R O S C O P I C T I S S U E / MISTOPATHOLOGIC FINDINGS ILAR CONGESTION ILAR CONGESTION ILAR CONGESTION ILAR SINUSES IVE HYPERPLASIA AND/OR ERYTHROPHAGOCYTOSIS WITHIN LARY SINUSES IVE HYPERPLASIA AND/OR CHOLANGIOFIBROSIS OF CELLULAR AITERATION - EOSINOPHILIC CELLS ESSIVE RENAL DISEASE CT, CHROWIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION	¥	GROSS ORGAN OBEYVORDS / PHRASES	A T I D N S >> CROSS FREE-TEXT COMMENTS
E / HISTOPATHOLOGIC FINDINGS DIOMYOPATMY CULAR CONGESTION MODES BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ULLARY SINUSES CTIVE HYPERPLASIA E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS US OF CELLULAR AITERATION - EOSINOPHILIC CELLS GRESSIVE RENAL DISEASE ARCT, CHRONIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION	•	, CORTICAL Surface) / MASS(ES)	FOCAL, RIGHT, YELLOW, DEPRESSED, GRITTY 2.5 X 1.5CM, BILATERAL BILATERAL, YELLOW AND BLACK
CULAR CONGESTION ROSIS CAPSULAR MODES BLOOD CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ULLARY SINUSES CTIVE HYPERPLASIA E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS US OF CELLULAR AITERATION - EOSINOPHILIC CELLS GRESSIVE RENAL DISEASE ARCT, CHRONIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION	TISSUE / HISTOPATHOLOGIC	0 S C O P I C	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
CULAR CONGESTION ROSIS CAPSULAR NODES BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ULLARY SINUSES CTIVE HYPERPLASIA E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS US OF CELLULAR AITERATION - EOSINOPHILIC CELLS TGRESSIVE RENAL DISEASE ARCT, CHRONIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION	HEART		. NOT SPECIFIED(TRACE)
ROSIS CAPSULAR MODES BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ULLARY SINUSES CTIVE HYPERPLASIA E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS US OF CELLULAR AITERATION - EOSINOPHILIC CELLS GRESSIVE RENAL DISEASE ARCT, CHRONIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION	LUNGS		. NOT SPECIFIED (PRESENT)
BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ULLARY SIMUSES CTIVE HYPERPLASIA E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS US OF CELLULAR AITERATION - EOSINOPHILIC CELLS TGRESSIVE RENAL DISEASE ARCT, CHRONIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION	SPLEEN		. FOCAL(TRACE)
E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT US OF CELLULAR ALTERATION - EOSINOPHILIC CELLS Y GRESSIVE RENAL DISEASE ARCT, CHROWIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION NOT	- RED BLOOD CEELS, HEMOS MEDULLARY SIMUSES - REACTIVE HYPERPLASIA	THROPHAGOCYTOSIS WITHI	
RESSIVE REMAL DISEASE RCT, CHROWIC WITH FIBROSIS; WITH OR WITHOUT MINERALIZATION NOT	-BILE DUCTULE EPITHELIAL -FOCUS OF CELLULAR ALTEI	L HYPERPLASIA AND/OR CHOLANGIOFIBROSIS RATION - EOSINOPHILIC CELLS	
	-PROGRESSIVE RENAL DISE.	ASE FIBROSIS; WITH OR WITHOUT MINERALIZATION	TON

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-64 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANINAL NUMBER: 157/PRETEST= 157 SEX: MALE DOSE GROUP: 3 DATE OF DEATH: 27-JAN-86 STUDY DAY OF DEATH: 736 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 358.00 (GMS)
TISSUE / WISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
ADREMAL	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	DURING TRIMMING OF TISSUES, A MASS WAS DISCOVERED IN THE MESENTARY (DOCUMENTED ON LAIR FORM 52) AND EMBEDDED IN BLOCK #22. THIS LESION CONSISTS OF CHRONIC INFLAMMATION, FIBROSIS, AND MULTIFOCAL MINERALIZATION OF MESENTERIC FAT.

B S E R V A T 1 O N S -> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT SMALL FOCAL ADMESION BETWEEN MEDIAL AND LEFT LATERAL LOBE PRESENT SMALL FOCAL ADMESION BETWEEN MEDIAL AND LEFT LATERAL LOBE PRESENT SMALL FOCAL ADMESION BETWEEN MEDIAL AND LEFT LATERAL LOBE PRESENT SMALL FOCAL ADMESION BETWEEN MEDIAL AND LEFT LATERAL LOBE PRESENT SMALL FOCAL ADMESION BETWEEN MEDIAL AND LEFT LATERAL LOBE PRESENT SMALL FOCAL (TRACE) NOT SPECIFIED (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (MODERATE)	BIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	SERV GP		ART DA	STUDY NUMBER: GLP83009 TE: 23-JAN-84	STUDY TYPE: CI	PRINTED: 21-NOV-89 PAGE: 327 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ME CA G R O S S O R G A W O B S E R V A T I O W S S S A D R G A W O B S E R V A T I O W S S S A D R G A W O B S E R V A T I O W S S S A D S A D R A D	ANIMAL NUMBER: Date of Death: 27-Jan	158/PRETEST= 1-86 STUDY D	158 SEX: MALE AY OF DEATH: 736		UP: 3 SACRIFICE SEX OF DEATH: 106 TER	TATUS: FINAL SACRI	IFICE : 377.00 (GMS)
ADMESSION(S) FRESENT RIGHT, 2.5 x 1.5cm GROUTHER, 1.0 M SSCES) FRESENT RIGHT, 2.5 x 1.5cm GROUTHER, 1.0 M SSCES) FRESENT RIGHT, 2.5 x 1.5cm GROUTHER, 1.0 M SSCES, 1.0 M M SSCES, 1.0 M M SSCES, 1.0 M M M SSCES, 1.0 M M M SSCES, 1.0 M M M SSCES, 1.0 M M M M M M M M M M M M M M M M M M M	ORGAN NAME	KETWORDS /	× 4 5	B S E R V A SEVERITY	T Z GROS		
HISTOPATHOLOGIC FINDINGS HISTOPATHOLOGIC FINDINGS GLAID MATION, SUBACUTE TO CHRONIC MATION, SUBACUTE TO CHRONIC MATION, SUBACUTE TO CHRONIC MATION OF PULMONARY ARTERIES MOT SPECIFIED (MILD) MOT SPECIFIED (MODERATE) MOT SPECIFIED (MODERATE) SSIVE REMAL DISEASE MOT SPECIFIED (MODERATE) MOT SPECIFIED (MILD)	L1 VER TESTES TESTES	ADMESIOM(S) ENLARGED GROWTH(S) /	MASS(ES)		SMALL FOCAL ADHESION BE RIGHT, 2.5 X 1.5CM BILATERAL, YELLOW AND B	TWEEN MEDIAL AND I	LEFT LATERAL LOBE
MATION, SUBACUTE TO CHRONIC MOT SPECIFIED (MILD) LIZATION OF PULNONARY ARTERIES MOT SPECIFIED (TRACE) RRC'S AND HENOSIDERIN PRESENT IN CRYICAL AND MESCHTERIC ARY SINUSES MOT SPECIFIED (MILD) MOT TI-FOCAL (TRACE) FOCAL (RESENT) MOT SPECIFIED (MODERATE) MOT SPECIFIED (MODERATE) MOT SPECIFIED (MODERATE) MOT SPECIFIED (MODERATE) MOT SPECIFIED (MILD)	TISSUE / HISTOPATHOLO	! _	O I d	SUE	O B S E R V A T I O M S	>> / SPECIAL COMMENT	<u>s</u>
MOT SPECIFIED (MILD) LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES NOT SPECIFIED (MILD) RBC'S AND HEMOSIDERIN PRESENT IN CERVICAL AND MESENTERIC RBC'S AND HEMOSIDERIN PRESENT IN CERVICAL AND MESENTERIC RBC'S AND HEMOSIDERIN PRESENT IN CERVICAL AND MESENTERIC RBC'S AND HEMOSIDERIN AND/OR CHOLANGIOFIBROSIS WOT SPECIFIED (MILD) CTTIC VACUOLIZATION DEGENERATION NOT SPECIFIED (MODERATE) RULTI-FOCAL (PRESENT) FOCAL (PRESENT) ROT SPECIFIED (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (MILD)	LACRIMAL GLAND	UTE TO CHRONIC			FOCAL (TRACE)		
LIZATION OF PULMONARY ARTERIES ODG CEES, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) ARY SINUSES UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (MILD) CYTIC VACUOLIZATION IS CAPSULAR NO COMPOUND DEGENERATION NOT SPECIFIED (MODERATE) NOT SPECIFIED (MODERATE) NOT SPECIFIED (MODERATE) RESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (MILD)	HEART			:	NOT SPECIFIED(MILD)		
DES	LUNGS	ULMONARY ARTER!		:	NOT SPECIFIED(TRACE)		
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS CYTIC VACUOLIZATION IS CAPSULAR NO COMPOUND DEGENERATION SSIVE RENAL DISEASE C PROSTATITIS HYPERPLASIA	LYMPH MODES RE PLOOD CEELS, HE MEDULLARY SINUSES	MOSIDERIN AND/	OR ERYTHROPHAGOCYTO		RBC'S AND HEMOSIDERIN P Not Specified (Present)	RESENT IN CERVICAL	. AND MESENTERIC NODES.
SSIVE REMAL DISEASE C PROSTATITIS HYPERPLASIA	LIVER	LIAL HYPERPLASI ZATION O COMPOUND	IA AND/OR CHOLANGIO		NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) FOCAL (PRESENT) MULTI-FOCAL (PRESENT)		
C PROSTATITIS NOT NYPERPLASIA	KIDNEY	:			NOT SPECIFIED (MODERATE)		
	PROSTATE						

Appendix J (cont.): PATEOLOGY INDIVI LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 PAGE: 328
	STUDY TYPE: CHRONI
ANIMAL NUMBER: 158/PRETEST= 158 SEX: MALE DOSE GROUP: 3 DATE OF DEATH: 27-JAN-86 STUDY DAY OF DEATH: 736 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 377.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
PANCREAS	HULTI-FOCAL(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	THE LENS OF BOSTH EYES WAS LOST DURING PROCESSING AND THEREFORE CANNOT BE EVALUATED. NOT SPECIFIED (PRESENT)

STAR	0414 KEPUKI GLP83009
159 SEX: MALE F DEATH: 736	SACRIFICE STA
ORGAN OBSE SES SEVE	T I O N S GROSS FREE
EYES & OPTIC N. LENS CATARACT PRESENT TESTES ENLARGED PRESENT TESTES GROUTH(S) / MASS(ES) PRESENT	BILATERAL BILATERAL, 2.5 X 1.5CM BILATERAL, YELLOW AND BLACK
C M I C M O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL)	. NOT SPECIFIED(TRACE)
LACRIMAL GLAND	MULTI-FOCAL(TRACE)
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -BENIGM HYPERPLASTIC NODULE(S) -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED(MILD) DIFFUSE(MILD) NOT SPECIFIED(TRACE) O MULTI-FOCAL(MILD)
PROGRESSIVE REMAL DISEASE	. NOT SPECIFIED(MILD)
PROSTATE	. NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)

7.	v Tomadá'u	-	300	(come.)	l q	Á	TOOTO		FAIRCLUGI INDIVIDUAL ANIMAL DATA	VIV	3	DATA			
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	RESEARCH		STE	ATS YOU	INDI RT DA	VIDUA STUDY TE: 2	INDIVIDUAL ANIMAL DATA REPORT Study Number: GLP83009 Study Start Date: 23-jan-84	L DATA	REPORT 3009	S	UDY 1Y	PE: CHR	PRINTED: 21-NOV-89 PAGE: 330 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	NTED: 21-9 PAGE: 330 TR CARCII	PRINTED: 21-NOV-89 PAGE: 330 C/2 YR CARCINGENIO
ANIMAL NUMBER: 159/PRETEST= DATE OF DEATH: 27-JAM-86 STUDY	TEST= 1 STUDY DAY OF	. —	59 SEX: MALE DEATH: 736	MALE 736		OSE G TUDY	ROUP: 3	IP: 3 SACR	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT:	STATUS:	FINAL BODY W	SACRIFI E1GHT:	CE 404.00 (GNS)	W9) 0	
TISSUE / MISTOPATHOLOGIC FINDINGS	0 % C	1	Ü	3 T S S T E S T E	7 S S	<u> </u>	O B S DISTR	E R V	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >>	CIAL C	OMMENTS			
SEMINAL VESICLE								PECIFIE	NOT SPECIFIED (PRESENT)	•					
TESTES		:				:	. (PRESENT)	Ţ							
MOSE/TURBINATES	LTRATION, CTS	, NASA	ור כאו	11Y, S	INUSE	: , 's	. INFIL	TRATE A Pecifie	AVITY, SIMUSES, NOT SPECIFIED(TRACE)	NASO-L/	ACRIMA	L DUCT.			
ADRENAL	, VACUOL				:			PECIFIE	NOT SPECIFIED(TRACE)						
EYES & OPTIC M			:		:			ETINAL TION AR	THE RETINAL DEGENERATION, SCLERAL MINERALIZATION AND CATARACT Formation are bilateral. Cataract is subcapsular. Corneal	ON, SCLE	ERAL M	INERAL 12 IS SUBCA	ATION AN Psular.	ID CAT	ARACT
-CORNEAL MINERALIZATION -RETINAL ATROPHY AND/OR DEGENERATION, UNILATERAL OR BILAT -CORNEAL VASCULARIZATION -NETAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	ERATION, ND/OR HIN	UNILA	TERAL	ILATERAL OR BILATERAL	LATER/ ERA	1	FOCAL POCAL POCAL FOCAL NOT SE	MINERALIZATION FOCAL(TRACE) DIFFUSE(MARKED) FOCAL(TRACE) NOT SPECIFIED (MINERALIZATION AND VASC FOCAL(TRACE) DIFFUSE(MARKED) FOCAL(TRACE) NOT SPECIFIED (PRESENT)	CULARIZA)	NO 110	NE UNILA	TERAL		
-LEMTICULAR DEGENERATIVE CHAN	GES COMPA	17 1 B L E	# S	CATAR	ACT		IS LON	PECIFIE	D (PRESENT	_					

Appenday LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344	AI STITUTE OF PATH SERV (HER-344	Appendix of Research v GP	ם	(cont.):	AR I	PATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER: T DATE: 23-JAN-84	ANIMAL (UMBER: (UMBER: (INDIVIDUAL DATA REPORT GLP63009	IDUAL ORT	STUDY	L DATA	A PRI	PRINTED: PAGE: C/2 YR CA	INAL DATA PRINTED: 21-NOV-89 PAGE: 331 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 160/PRETEST- DATE OF DEATH: 27-JAN-86 STUDY DAY	Z	ETESTS 160 SEX: MA STUDY DAY OF DEATH: 736	5	160 SEX: MALE DEATH: 736	LE	DOSE GROUP: 3 STUDY WEEK OF	UP: 3 EK OF DE	DOSE GROUP: 3 SACRI STUDY WEEK OF DEATH: 106	RIFICE S	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STATUS STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 366.00 (GMS	INAL SACE	11 F 1 CE	366.00 (GMS)	(SH
ORGAN NAME KEYNORDS / PHRASES	× 6 I	G R O S S O R KETWORDS / PHRASES	O R C	* V		<	GROSS FREE	S >>	1 1 O N S ->> GROSS FREE-TEXT COMMENTS	• • •		•		
1657ES 1657ES 1657ES 1657ES	CENTER CONTRACT	ENLARGED, UNILATERAL ATROPHIC / SMALL, UN ENLARGED GROWTH(S) / MASS(ES)	UNILATERALLY / SMALL, UNIL / MASS(ES)	TERALLY L, UNILATERALLY S(ES)			LEFT, .5 1.5 X 10 RIGHT, 3 LEFT HAS	SCM DIAMETER 15M, LEFT 3 X 1.75CM AS MULTIPLE V INVOLVES ENTI	SCM DIAMETER SCM, LEFT 3 x 1.75CM S MULTIPLE VARIAB	LEFT, .SCM DIAMETER 1.5 x 1CM, LEFT RIGHT, 3 x 1.75CM REFT HAS MULTIPLE VARIABLY SIZED YELLOW RIGHT INVOLVES ENTIRE TESTE, YELLOW AND	YELLOW	MASSES. Black		
TISSUE / HISTOPATHOLOGIC FINDINGS	* * NOLOGIC FIN	: -	0	0	n s s r L	.	DBSE	R V A T	OBSERVATIONS DISTRIBUTION (SEVERITY)	>> / SPECI/	/ SPECIAL COMMENTS	\$11	1	
PARATHYROID		•			•	•	rissue i	TISSUE IS MISSING	9					
HEART	PHY OF MUSCULAR ARTER	CULAR ART	ERIES				NOT SPEC	SPECIFIED(TRACE) SPECIFIED(TRACE)	RACE) RACE)					
SPLEEN	ILTRATE, C	APSULE AN	ID OMENTUM		•	:	IOT SPEC		NOT SPECIFIED (PRESENT)					
LYMPH NODES RED BLOOD CEELS MEDULLARY SINUS	CEELS, HEMOSIDERIN AND/OR EI	RIN AND/O	R ERYTH	ROPHAGOCYTOSIS W	RYTHROPHAGOCYTOSIS WITHIN	:	RBC'S AN	I PHEMOS	RBC'S AND HEMOSIDERIN L Not specified (Present)	RBC'S AND HEMOSIDERIN LIMITED TO MEDIASTINAL NODES Not specified (present)	MEDIAST	INAL NOD	ES.	
LIVER	ITHELIAL HY	YPERPLASI	• =	CHOLAN	ND/OR CHOLANGIOFIBROSIS	:	NOT SPEC	SPECIFIED(MILD) SPECIFIED (PRES	MILD) (PRESENT)					
FIDNEYPROGRESSIVE RENAL DISEASE	AL DISEASE				•	:	IOT SPEC	:1 F 1 ED (M	NOT SPECIFIED (MODERATE)					
PROSTATE	11.S						NOT SPEC	SPECIFIED (MILD) SPECIFIED (TRACE	ILD) RACE)					
SEMINAL VESICLE				•		:								

Appendix J (CONT.): PATHOLOGY INDIVI LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL NUMBER: 160/PRETEST# 160 SEX: MALE DOSE GROUP: 3 DATE OF DEATH: 27-JAN-86 STUDY DAY OF DEATH: 736 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 366.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
	INTERSTITIAL CELL ADEWOMAS ARE PRESENT IN BOTH TESTES. THE TUMOR IN THE LEFT TESTIS (DESCRIBED AS SMALL AND ATROPHIC GROSSLY) IS PROBABLY TOO SMALL TO RE DETECTED GROSSLY
-B- INTERSTITIAL CELL ADENOMA	(PRESENT)
PANCREASACINAR (EXOCRINE) ATROPHY -B- ISLET CELL ADENOMA	MULTI-FOCAL(MILD) (PRESENT)
MOSE/TURBINATES	INFILATRATE IS BILATERAL, ADJACENT TO NASO-LACRINAL DUCTS NOT SPECIFIED(MILD)
ADREMAL	• (PRESENT)

LETTERNAM ARMY INSTITUTE OF RESEARCH STUDY START DATE: 23-JAN-64 SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344 SAMIMAL HUMBER: 27-JAN-64 SAMIMAL HUMBER: 27-JAN-64 SAUDY START DATE: 23-JAN-64 SAMIMAL HUMBER: 27-JAN-64 SAUDY DATE OF DEATH: 736 SECROUP: 3 DATE OF DEATH: 27-JAN-64 GROWTH SS OR GAN OF BEST OF FOR SEVERITY GROSS CRGAM MAME EVES & OPTIC N. LENS CATARACT FESTES CARDIOMYOPATHY CARDIOMYOPATHY CARDIOMYOPATHY MEART -CARDIOMYOPATHY MEART -CARDIOMYOPATHY MED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPINEDULLARY SINUSES	IVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83000 ATE: 23-JAM-84 BOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE BOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE ER V A T I O N S >> VERITY GROSS FREE-TEXT COMMENTS ESENT LEFT ESENT LEFT ESENT BILATERAL, 3 X 2CM ESENT BILATERAL, 3 X 2CM ESENT BILATERAL, 7 ELLOW AND BLACK BOSTRIBUTION (SEVERITY) / SPECIAL COMMENTS NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
DAY OF DEATH: 736 DAY OF DEATH: 736 ORGAN OBSERVA PHRASES ACT MASS(ES) PRESENT PRESENT PRESENT PRESENT PRESENT ORGAN TERMINAL BODY WEIGHT: TERMINAL BODY WEIGHT: COMMENTS CM AND BLACK TO N S -> VERITY) / SPECIAL COMMENTS (D) ACE) ACE)	
PHRASES ACT ACT PRESENT PRESENT PRESENT NASS(ES) S C O P I C T I S S U E INTERIES NOR ERYTHROPHAGOCYTOSIS WITHIN	T I O N S >> GROSS FREE-TEXT COMMENTS LEFT BILATERAL, 3 x 2CM BILATERAL, 3 x 2CM BILATERAL, 7 x LO N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS VOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) RBC'S AND HEMOSIDERIN PRESENT ONLY IN MEDIASTINAL NODES.
MASS(ES) PRESENT / MASS(ES) PRESENT / S C O P I C T I S S U E // RTERIES	SILATERAL, 3 x 2CM SILATERAL, 7 ELLOW AND BLACK SILATERAL, 7 ELLOW AND BLACK SILATERAL, 7 ELLOW AND BLACK SILATERAL, 7 ELLOW AND BLACK SILATERAL, 7 ELLOW AND BLACK SILATERAL, 7 ELLOW AND BLACK SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL ON S >> SILATERAL S >> SILATERA
S C O P I C T I S S U E RETHROPHAGOCYTOSIS WITHIN	D B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENȚS OUT SPECIFIED(MILD) NOT SPECIFIED(TRACE) RBC'S AND HEMOSIDERIN PRESENT ONLY IN MEDIASTINAL NODES.
PATHY PERTROPHY OF MUSCULAR ARTERIES CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) RBC'S AND HEMOSIDERIN PRESENT ONLY IN MEDIASTINAL NODES.
CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	RBC'S AND HEMOSIDERIN PRESENT ONLY IN MEDIASTINAL NODES.
	NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED(MODERATE) Not specified (present)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)

LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DATA REPORT PAGE: 334 DIV OF RES SUPP, PATH SERV GP STUDY START DATE: 23-JAN-84 SPECIES: RAT/FISCHER-344	11-NOV-89 134 1CI NOGENIC
ANIMAL NUMBER: 161/PRETEST# 161 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE DATE OF DEATH: 106 TERMINAL BODY WEIGHT: 395.00 (GMS)	(S)
TISSUE / HISTOPATHOLOGIC FINDINGS TISSUE / HISTOPATHOLOGIC FINDINGS	
PANCREAS ATROPHY	
MAMMARY GLANDS	
EYES & OPTIC N	NL ATROPHY NHE EYE
(LEFT) AS THE CATARACTRETINAL ATROPHY AND/OR DEGENERATION, UNILATERAL OR BILATERAL NOT SPECIFIED (MODERATE) -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT NOT SPECIFIED (PRESENT)	
MEDIASTINUM	

LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	SEARCH	STAR	INDIVIDUAL ANIMAL STUDY MUMBER: T DATE: 23-JAN-84	DATA REPORT GLP83009	PRINTED: 21-NOV-699 PAGE: 335 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 335 ONIC/2 YR CARCINGENI	NOV-89 NOGENIC
ANIMAL NUMBER: 162/PRETEST# 162 SEX: MAL Date of Death: 29-jam-86 study day of Death: 738	DAY O	162 SEX: MALE F DEATH: 738	DOSE GROI STUDY WEI	UP: 3 EK OF DEATH:	: FINAL SACRIFICE BODY WEIGHT:	321.00 (GMS)	
ORGAN WAME KEYLORDS / PHRASES	G R O S S O R KEYWORDS / PHRASES	8	· <	T I O M S GROSS FREE-			: : : :
	ENLARGED Grouth(s) / Mass(es)		PRESENT	LEFT, 2.5 X 1.5CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW	ILY SIZED, YELLOW		
TISSUE / MISTOPATNOLOGIC FINDINGS	M I C R O S C O P FINDINGS	s 1 1 0 1	SUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/> /> /> /> /> /> /> /> /> /> /> /> /> /		
NEART			-	NOT SPECIFIED(TRACE)			
LUNGS	:			NOT SPECIFIED(TRACE)			
LIVER	NYPERPLASIA AND/	ND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED (MODERATE)			
KIDNEYPROGRESSIVE REMAL DISEASE				NOT SPECIFIED (MODERATE)			
PROSTATE			:	FOCAL (TRACE)			
TESTES	ENONA		:	(PRESENT)			
PANCREAS	<u>.</u>		:	HULTI - FOCAL (TRACE)			
MANHARY GLANDS	DUCTS AND DUCTULE			NOT SPECIFIED (PRESENT)			
ADREMAL							

Appendix	ט	(cor	(cont.):		ATHC	TOGX	PATHOLOGY INDIVIDUAL ANIMAL DATA	DUAL	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	1 1 1 1	S	upy s	INDI	VIDUA STUDY TE: 2	INDIVIDUAL ANIMAL D STUDY NUMBER: G STUDY START DATE: 23-JAM-84	DATA	7 X	STUDY	TYPE: CHR	PRINTED: 21-NOV-89 PAGE: 336 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	21-NOV-89 336 RCINOGENIC
ANIMAL NUMBER: 162/PRETEST# 162 SEX: MAL DATE OF DEATH: 29-JAN-36 STUDY DAY OF DEATH: 738	162 OF DE	EATH:	SEX: MALE ATH: 738		OSE GF	DOSE GROUP: 3 STUDY WEEK OF DEAT	SACR DEATH: 106	IFICE S	TATUS: FIN	SACRIFICE STATUS: FINAL SACRIFICE : 106 TERMINAL BODY WEIGHT: 321	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 321.00 (GMS)	
TISSUE / HISTOPATHOLOGIC FINDINGS	0 0		-	1 C 1 1 S S U E	ш	0 8 S DISTRI	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	I O N S VERITY)	/ SPECIAL	O N S >> RITY) / SPECIAL COMMENTS		! ! !
ADREMAL	LATED		•			NOT SP	MOT SPECIFIED(TRACE) HOT SPECIFIED (PRESENT)	ACE) RESENT)	and the second			
PITUITARY GLAND TISSUE IS MISSING	:	:			:	TISSUE	IS MISSING	(7				
EYES & OPTIC N	HERA	LIZATI	ON, SC	IZATION, SCLERA			NOT SPECIFIED (PRESENT)	(ESENT)				

STUDY START DA	DATA R GLP830
ER: 163/PRETEST= 163 SEX: MALE TM: 29-JAN-86 STUDY DAY OF DEATH: 736	CE STATUS: TERMINAL B
ORGAN OSSERV SES SEVERIT	A T I O M S GROSS FRE
TAIL ULCERATION PRESENT TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	VENTRAL BASE, .5CM DIAMETER LEFT, 4 X 2CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	. (PRESENT)
NEART	. NOT SPECIFIED(MILD)
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDMEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED(MILD)
SEMINAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTES	. (PRESENT)
ADREMAL	(PRESENT)
PITUITARY GLAND	

r xipueddy	ם	Con Con	(cont.):		ATH	LOGY	IMDI	VIDUA	PATHOLOGY INDIVIDUAL ANIMAL DATA	AL I	ATA			
LEITEMMAN ARMT INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAITFISCHER-544		INI STUDY START	ruoy s	IND TART D	STUD)	INDIVIDUAL AMIMAL DATA REPORT STUDY START DATE: 23-JAN-84	L DATA L GLP831 6	REPORT	SI	UDY 1	PRINTED: 21-NOV-89 PAGE: 338 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINT PA DNIC/2 Y	PRINTED: 21-NOV-89 PAGE: 338 C/2 YR CARCINOGENI(NOV-89 Nogenic
ANIMAL MUMBER: 163/PRETEST" 163 SEX: MAI Date of Death: 29-Jam-86 Study Day of Death: 738	70	163 SEX: MALE DEATH: 738	MALE 738		DOSE (STUDY	DOSE GROUP: 3 STUDY WEEK OF DI	DEATH:	SACR F C 106	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERNINAL BODY WEIGHT: 336.00 (GMS)	FINAL	SACRIF	1CE 336.0	0 (GMS)	•
TISSUE / MISTOPATHOLOGIC FINDINGS	0	5	-	8 8 1	ш Э	0 8 S	E R V I	(SEVER	PIC TISSUE DBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	CIAL	OMMENTS	• • • •	• • • •	:
PITUITARY GLAND					:	. (PRESENT)	£							
EYES & OPTIC N	NER/	RALIZATION, SCLERA	ON, SI	CLERA			ECIFIED	NOT SPECIFIED (PRESENT)	NT.)					

DIV OF RES SUPP, PATH SERV GP Species: Rat/Fischer-344	SERV GP		STUDY START DATE: 23-JAN-84	STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL HUMBER: 164/ DATE OF DEATH: 29-JAN-86	Ī	- 4	LE DO	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 395.00 (GMS)
ORGAN NAME < G R O S S KEYUORDS / PHRA	G R O S S KEYVORDS / PHRA		O B S E O	
TESTES TESTES KLOMEY	ENLARGED GROWTH(S) / MAS GRANULAR SURFAC	/ MASS(ES) Surface	PRESENT	LEFT, 3.5 X 2CM BILATERAL, VARIABLY SIZED, YELLOW/BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	M C R O S	0 5 6 0 7 6	I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	ELL ADENOMA			(PRESENT)
MEDIAL MYPERTROPHY OF MUSCULAR ARTERI	F MUSCULAR A	ARTERIES		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LIVER	IAL HYPERPLATION ATION TERATION - E	ASIA AND/OR CHOLAN	KGTOFIBROSIS	NOT SPECIFIED(MODERATE) MULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE)
PROGRESSIVE RENAL DISEASE	SEASE			NOT SPECIFIED(MODERATE)
PROSTATE				NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
TESTES	ADENONA			(PRESENT)
PANCREAS	•			

Appendix Letternan army institute of research	J (cont.): PATHO	PATEOLOGY INDIVIDUAL ANIMAL DATA DELIFED 21-200-20
DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY NUMBER: STUDY START DATE: 23-JAN-84	GLP83009 STUDY TYPE: CHRONI
ANIMAL NUMBER: 164/PRETEST BATE OF DEATH: 29-JAN-86 STUDY DAY	STUDY DAY OF DEATH: 738 STUDY W	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 395.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	0	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS		. FOCAL(TRACE)
MAMMARY GLANDS	IE ACIMAR TISSUE	. NOT SPECIFIED(TRACE)
MOSE/TURBINATES	NASAL (
ADRENAL	PHILIC ATED	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
PITUITARY GLAND	:	(PRESENT)

TOS SEXT. MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE F DEATH: 738 STUDY WEEK OF DEATH: 106 TERNINAL BODY WIGHT: 3 OR G A N O B S E R V A T I O N S >> SES PRESENT LEFT, MOTTLED RED AND WHITE S(ES) PRESENT LEFT, MOTTLED RED AND WHITE PRESENT LEFT, MOTTLED RED AND WHITE AR MARKINGS OP I C T I S S U E O B S E R V A T I O N S >> CELL, LIGHT CELL) NOT SPECIFIED (MILD) KES NOT SPECIFIED (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED (MILD)	IN STUDY START	VIDUAL ANIMAL DATA REPORT STUDY MUNBER: GLP83009 TE: 23-JAN-84
MAME *** GROSS PREFETEXT COMMENTS *** SEVERITY GROSS PREFETEXT COMMENTS *** SEVERITY GROSS PREFETEXT COMMENTS *** SEVERITY GROSS PREFETEXT COMMENTS *** SECONDATION *** SE	PRETEST= 165 SEX: MALE STUDY DAY OF DEATH: 738	IFICE STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT:
S GROWTH(S) / MASS(ES) PRESENT LEFT, MULTIPLE VARIABS ENLARGED PROMINGNT LOBULAR MARKINGS ENLARGED PRESENT PRESENT LEFT, 3, X 2CM PRESENT LEFT, 3, X 2CM PRESENT LEFT, 3, X 2CM PRESENT LEFT, 3, X 2CM PRESENT LEFT, 3, X 2CM PRESENT LEFT, 3, X 2CM PRESENT PRESENT LEFT, 3, X 2CM PRESENT PRESENT LEFT, 3, X 2CM PRESENT LEFT, 3, X 2CM PRESENT PRESENT LEFT, 3, X 2CM PRESENT PRESENT PRESENT PROMINGNT PRESENT PROMINGNT PRESENT PROMINGNT PRESENT PRESENT PRESENT PRESENT PRESENT PROMINGNT PRESENT PRESENT PRESENT PRESENT PROMINGNT PRESENT PROMINGNT PRESENT	C G R O S S O R G A N O B KEYLORDS / PHRASES	T I O N S >> GROSS FREE-TEXT COMMENTS
CULAR CONGESTION CHICAR CONGESTION THOUSE EN V A T 1 O N S DIGHT CELL NOT SPECIFIED (TRACE) A-FOLLICULAR CELL NOT SPECIFIED (TRACE) A-FOLLICULAR CONGESTION AND SPECIFIED (MILD) AND SPECIFIED	DISCOLORATION GROWTH(S) / MASS(ES) ENLARGED PROMINENT LOBULAR MARKINGS	
A-FOLLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) ITAL LACRIM DIOMYOPATHY DIOMYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIES ULAR CONGESTION ERALIZATION OF PULMONARY ARTERIES NOT TIOCYTIC INFILTRATE, CAPSULE AND OMENTUM E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT TIC DEGENERATION	OSCOPIC TISSUE	S E R V A T I O N S TRIBUTION (SEVERITY) /
DIOMYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIES CULAR CONGESTION RACIZATION OF PULMONARY ARTERIES NOT TIOCYTIC INFILTRATE, CAPSULE AND OMENTUM E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT TIC DEGENERATION	R CELL MYPERPLASIA ("C" CELL, LIGHT CELL)	
ERALIZATION OF PULMONARY ARTERIES NOT TIOCYTIC INFILTRATE, CAPSULE AND OHENTUM E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT	DIONYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERIES	
TIOCYTIC INFILTRATE, CAPSULE AND OMENTUM E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT	CULAR CONGESTION ERALIZATION OF PULMONARY ARTERIES	
E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TIC DEGENERATION	IOCYTIC INFILTRATE, CAPSULE AND OMENTUM	NOT SPECIFIED (PRESENT)
	E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
	RESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)

	TISSUE / HISTOPATHOLOGIC FINDINGS TISSUE / HISTOPATHOLOGIC FINDINGS PROSTATE -ACUE SUPPURATIVE PROSTATITIS -BEMINAL VESICLE -GEMERALIZED ATROPHY TESTES -B. INTERSTITIAL CELL ADENOMA PANCERAS -GRENALIZED ATROPHY TESTES -B. INTERSTITIAL CELL ADENOMA PANCERAS -CHROWIC INFLAMMATION MOSE/TURBINATES -MIXED INFLAMMATORY CELL INFILTRATION, MASAL CAVITY, SINUSES, NOT SPECIFIED (TRACE) BADREMAL -FOCUS OF CELLULER ALTERATION, EOSINOPHILIC -B. ADENOMA -B. ADENOMA -B. ADENOMA (PRESENT) (PRESENT) PROSTATION (PRESENT) PROSTATION (PRESENT) DITE 23-JAN-84 DITE 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC BOSTS CROUDE 3 STUDY WEEK OF DEATH: 106 TERNIMAL BODY WEIGHT: 389.00 (GMS) U C D SS ER V A T I O M S >> D STR BULLION (SEVERITY) / SPECIAL COMMENTS WOT SPECIFIED (TRACE) WOT SPECIFIED (TRACE) WOT SPECIFIED (TRACE) DIFFUSE(MILD) THE INFILTRATE IS PRIMARILY SUPPURATIVE AND LIES ADJACENT TO THE MASO-LACRIMAL DUCT. SES, MOT SPECIFIED (TRACE) MOT SPECIFIED (TRACE) WOT SPECIFIED (TRACE)	
OF PIGMENIED SECRETORY PRODUCT MAICH MAY MAVE ACCOUNTED FOR THE	OF PIGMENTED SECRE	SECKETORY PRODUCT WHICH MAY MAVE ACCOUNTED FOR THE
	C 101001011 00000	0 00 00 month 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		ION OF CONJUNCTIVITIES.
GROSS IMPRESSION OF CONJUNCTIVITIES.		

FRETEST	LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	Appendle J Letterman army institute of research Div of res supp, path serv gp species: rat/fischer-344	(cont.):	SAC.): RATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
LAND ENLARGED PRESENT PRESENT MODULE GROWTH(S) / MASS(ES) PRESENT ABSCESS(ES) PRESENT ABSCESS(ES) PRESENT ABSCESS(ES) PRESENT ABSCESS(ES) PRESENT ABSCESS(ES) PRESENT ATTUNOR INVASION RY TUNOR INVASION ATTON OF PULMONARY ARTERIES H, CHRONIC PERTROPHIC NODULE PERTROPHIC NODULE	ANIMAL NUMBER: DATE OF DEATH:		, E	DEATH:
LAND ENLANGED MODULE GROWTH(S) / MASS(ES) PRESENT ABSCESS(ES) ABSCESS(ES) PRESENT AB	ORGAN NAME	C G R O S S KEYWORDS / PHR	8	ERVATIONS >>
STOPATHOLOGIC FINDINGS STOPATHOLOGIC FINDINGS RY TUMOR INVASION NDS TCULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY ATION OF PULMONARY ARTERIES NIAL LYMPHOID HYPERPLASIA N, CHRONIC PERTROPHIC MODULE	PITUITARY GLANG SPLEEN TESTES SKIN			DARK RED, '4CM DIAMETER GRAY/WHITE, FCM DIAMETER BILATERAL, MULTIPLE VARIABLY SIZED, RIGHT, NASOMAXILLARY, 2CM DIAMETER
RY TUMOR INVASION MDS	TISSUE / HISTOF	ATHOLOGIC FINDINGS	0 9 1 C 1 1 S S	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENT
ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY ATION OF PULMOMARY ARTERIES HIAL LYMPHOID HYPERPLASIA M, CHRONIC PERTROPHIC MODULE	BRAIN	UNOR INVASION		
ATION OF PULMONARY ARTERIES MIAL LYMPHOID NYPERPLASIA N, CHRONIC PERTROPHIC MODULE	THYROID GLANDS -PARA-FOLLICUL	AR CELL HYPERPLASIA ("C'	CEL	NOT
ATION OF PULMONARY ARTERIES HIAL LYMPHOID HYPERPLASIA H, CHRONIC PERTROPHIC NODULE	HEART	:		TON
N, CHRONIC PERTROPHIC NODULE	LUNGS	N OF PULMONARY ARTERIES LYMPHOID HYPERPLASIA		: NOT NOT
	2 3	HRONIC ROPHIC NODULE		NOT
-REACTIVE HYPERPLASIA		RPLASIA		

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	LOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA PRINTED: 21-NOV-89 NUMBER: GLP83009 -JAN-84
166 SEX: MALE OF DEATH: 738	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 360.00 (GMS)
TISSUE / WISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	MULTI-FOCAL(TRACE) Not Specified(MILD)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MARKED)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	. (PRESENT)
EXIX.	THE LESION IN THE RIGHT MASOMAXILLARY AREA DIAGNOSED GROSSLY AS AN ABSCESS IS A LARGE KERATIN-FILLED CYSTIC CAVITY WITH A PROLIFERATIVE SQUAMOUS EPITHELIAL LINING COMPATIBLE WITH
-B- KERATOACANTHOMA, ANATOMIC SITE TO BE SPECIFIED	KERATOACANTHOMA. THE CYSTIC CAVITY CONTAINS NUMEROUS NEUTROPHILS In addition to the Keratin. (Present)
MAMMARY GLANDS	NOT SPECIFIED (MODERATE) WOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE IS UNILATERAL AND INVOLVES THE NASO-LACRIMAL DUCT. Not specified(mild)
PITUITARY GLAND	(PRESENT)

Appendix J (cont.): R M ARMY INSTITUTE OF RESEARCH ES SUPP, PATH SERV GP RAT/FISCHER-344 STUDY START DA	ATHOLOGY INDIVIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 ITE: 23-JAN-84
ANIMAL WUMBER: 167/PRETEST# 167 SEX: MALE DOSE G DATE OF DEATH: 29-JAN-86 STUDY DAY OF DEATH: 736 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 389.00 (GMS)
	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT RIGHT, 2.5 x 1.5CM PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW PRESENT BILATERAL, MULTIPLE VARIABLY SIZED
C MISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TRACHEA	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(MILD)
LUNGS	MOT SPECIFIED(TRACE) MOT SPECIFIED(TRACE)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -HEPATOCYTIC COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
KIONEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MARKED)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
ERV GP START STUDY START DAY	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 IE: 23-JAN-84
167 SEX: MALE DO	SACR DEATH: 106
TISSUE / AISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
URINARY INTADDER	TISSUE IS MISSING
PROSTATE	NOT SPECIFIED(MODERATE) NOT SPECIFIED(MODERATE)
TESTES	(PRESENT)
TOWGUE	FOCAL (TRACE)
MAMMARY GLANDS	NOT SPECIFIED(MARKED) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	THE INFILTRATE IS PRIMARILY SUPPURATIVE AND INVOLVES NASO- Lacrimal Ducts Bilaterally. Not Specified(Moderate)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

SPECIES: RAT/FISCHER-344 ANIMAL NUMBER: 25-JAN-84 ANIMAL NUMBER: 29-JAN-86 STUDY DAY OF DEATH: 738 STUDY WEEK OF	GLP83009
	STUDY TYPE: CARCHEC/2 TR CARCINGGENIC LOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 392.00 (GMS)
ORGAN NAME KEYWORDS / PHRASES LIVER ENLARGED LUNGS LUNGS DISCOLORATION PRESENT PRESEN	VATIONS >>> TY GROSS FREE-TEXT COMMENTS THOTTLED RED AND YELLOW D 8.5 X 2.5CM T MULTIPLE, RED, .1CM DIAMETER T BILATERAL, GREEN T BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW T SIZEM DIAMETER, RED
C MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
HEART	MULTI-FOCAL(MILD)
LUNGS	. MULTI-FOCAL(MILD) (PRESENT) NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD)
THYMUS	(PRESENT)
SPLEEM	(Present)
LYMPH HODES	(PRESENT)

P I C T I S S U E STUDY P I C T I S S U E STUDY NETASTATIC NETASTATIC NETASTATIC NETASTATIC NETASTATIC NASAL CAVITY, SIMUSES,	(CORC.): PATE INDIVIDU STUDY START DATE:	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84
PIC TISSUE /OR CHOLANGIOFIBROSIS // OR CHOLANGIOFIBROSIS // OR CHOLANGIOFIBROSIS // CERASTATIC // CERASTAT	168 SEX: MALE DOSE DEATH: 738 STUDY	IOUP: 3 SACRIFICE STATUS: FINAL SACRIFICE HEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 392.00 (GMS)
ECEMERATIVE CHANGES (NON-NECROTIC) LIAR LYMPHOCYTE LEUKEMIA, METASTATIC CHAL DISEASE ASIA ADEMONA TOOR HYPERTROPHY OF THE ACINAR TISSUE TASIA) OF DUCTS AND DUCTULES TASIA) OF DUCTS AND DUCTULES TOORY CELL INFILTRATION, NASAL CAVITY, SIMUSES, SOLLACRIMAL DUCTS COTTOSIS	P 1 C T 1 S S C	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ASIA ASIA AL CELL ADENOMA ADENOMA TASIA ADENOMA TASIA T	E DUCTULE EPITMELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS Rosis Atocytic Degemerative Changes (Mon-Wecrotic) Large Granular Lymphocyte Leukemia, Metastatic	_
TROPNY AL CELL ADENOMA ADENOMA ADENOMA TOOR NYPERTROPHY OF THE ACINAR TISSUE TASIA) OF DUCTS AND DUCTULES TORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ASO-LACRIMAL DUCTS COTTOSIS	ESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
AL CELL ADENOMA ADENOMA ADENOMA TIOOR NYPERTROPHY OF THE ACINAR TISSUE TIASIA) OF DUCTS AND DUCTULES TORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ASO-LACRIMAL DUCTS OCYTOSIS	HYPERPLASIA	
ADENOMA ADENOMA TO OR MYPERTROPHY OF THE ACINAR TISSUE TASIA) OF DUCTS AND DUCTULES TORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ASO-LACRIMAL DUCTS OCYTOSIS	TROPHY	
ADENOMA 10/OR HYPERTROPHY OF THE ACINAR TISSUE 17ASIA) OF DUCTS AND DUCTULES 17ORY CELL INFILTRATION, NASAL CAVITY, SINUSES, 18O-LACRIMAL DUCTS	ITERSTITIAL CELL ADENOMA	(PRESENT)
ID/OR NYPERTROPHY OF THE ACINAR TISSUE STASIA) OF BUCTS AND DUCTULES NTORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ASO-LACRIMAL BUCTS SCYTOSIS	CELL ADEWOMA	(PRESENT)
IASAL CAVITY, SINUSES,	ID/OR HYPERTROPHY OF THE ACINAR TISSUE	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)
110CYTOS1S	IASAL CAVITY, SIMUSES,	
	10CYTOS1S	NOT SPECIFIED (PRESENT)

endix J ESEARCH	(cont.): PA	
SPECIES: RAT/FISCHER-344	STUDY START DATE: 23-JAN-84	GLP83009 STUDY TYPE: CHROMI
EST= TUDY DAY OF	168 SEX: MALE DOS OF DEATH: 738 STU	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 392.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BONE, FEMUR		MOT SPECIFIED (PRESENT)
BONE VERT		NOT SPECIFIED (PRESENT)
-LIPIDOSIS -FOCUS OF CELLULER ALTERATION, EOSINOPHILIC -FOCUS OF CELLULAR ALTERATION, VACUOLATED	0 110	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
PITUITARY GLAND		(PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NERALIZATION, SCLERA	NOT SPECIFIED (PRESENT)
WHOLE BODY	∀	(PRESENT)

STECIES: RAI/FINCRER-SAA	RV GP	:	STUDY START DATE: 23-JAN-64			PRINTED: 21-NOV-89 PAGE: 350 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21- PAGE: 350 NIC/2 YR CARCI	21-NOV-89 350 RCINOGENIC
ANIMAL MUNBER: 169/ DATE OF DEATH: 30-JAN-86	2	STUDY DAY OF DEATH: 739	DOSE GROUP: STUDY WEEK C	3 OF DEATH:	FICE S	SACRIFICE STATUS: FINAL SACRIFICE 106 TERMINAL BODY WEIGHT: 354.00 (GM	CE 354.00 (GNS)	
ORGAN NAME	C G R O S S O R KEYLORDS / PHRASES	ORGAN OB	•		S >> REE-TEXT COMMENTS			
SPLEEN TESTES ADRENAL	MODULE ENLARGED GROWTH(S) / MASS(ES) DISCOLORATION	 S(ES)	PRESENT PRESEN	SCH DIAMETER, DARK LEFT, 2.75 X 1.75CH BILATERAL, MULTIPLE FOCAL, DARK, .1CH DI	.SCM DIAMETER, DARK LEFT, 2.75 X 1.75CM BILATERAL, MULTIPLE VARIALB		/BLACK	
TISSUE / MISTOPATHOLOGIC FINDINGS	C M I C R O S C O TISSUE / MISTOPATHOLOGIC FINDINGS	- -	SCE	OBSERVATIONS DISTRIBUTION (SEVERITY)	-i -i	SPECIAL COMMENTS		
TRACHEA	RACHEA			NOT SPECIFIED(TRACE)	(TRACE)			
HEARTCARDIONYOPATHY	EARTCARDIOMYOPATHY		•	NOT SPECIFIED(TRACE)	(TRACE)			
-PERIBRONCHIAL LYMPHOID HYPERPLASIA	HOID HYPERPLASIA			NOT SPECIFIED(TRACE)	(TRACE)			
SPLEENBENIGN NYPERTROPNI	PLEEM			NOT SPECIFIED (PRESENT)	(PRESENT)			
-BILE DUCTULE EPITHELIAL HYPER-BEPATITIS -HEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S) -FOCUS OF CELLULAR ALTERATION	-BILE DUCTULE EPITHELIAL HYPERPLASIA AND-HEPATITIS -HEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S) -FOCUS OF CELLULAR ALTERATION - EOSINOPH	ND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)	MILD) TRACE) ACE) TRACE) TRACE)			
KIDNEYPROGRESSIVE RENAL	IDNEYPROGRESSIVE RENAL DISEASE		:	NOT SPECIFIED(MODERATE)	MODERATE)			

Appendix J (cont.): PAT LETTERNAN ARMY INSTITUTE OF RESEARCH AND OF SEC CIDE DATH CERN CE CONT.	INDIVIDUAL ANIMAL DATA PRI
STUDY START DA	STUDY TYPE: CHRONIC/2 YR CARCINGENIC
169 SEX: MALE IF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 354.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	. NOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD)
SEMIMAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	. INFILTRATE INVOLVES VENTRAL ASPECT OF THE NASAL CAVITY. NOT SPECIFIED(TRACE)
-FOCUS OF CELLULER ALTERATION, EOSINOPHILIC	. NOT SPECIFIED(MILD)
EYES & OPTIC N	. WOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA

LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ICM INDIVIDUAL ANIMAL STUDY MUMBER: STUDY START DATE: 23-JAN-84	UAL ANIMAL DATA REPORT DY NUMBER: GLP83009 23-JAN-84 STUDY TYPE: CHROMIC/2 YR CARCINGENIC
ANIMAL NUMBER: 170, DATE OF DEATH: 30-JAN-86	ANIMAL NUMBER: 170/PRETEST= DATE OF DEATH: 30-JAN-86 STUDY DAY	170 SEX: MALE OF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 362.00 (GMS)
ORGAN NAME	C G R O S S O R KEYWORDS / PHRASES	A C A M O B RASES	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS
testes Testes	ENLARGED Growth(s) / MA	PRESENT PRESENT PRESENT	T LEFT, 3 X 1.75CM T BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPATHOLOGIC FINDING	TISSUE / NISTOPATHOLOGIC FINDINGS		O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID			TISSUE IS MISSING
HEARTCARDIONYOPATHY	OMYOPATHY		NOT SPECIFIED (MODERATE)
LUNGS	UNGS		(PRESENT)
THYNUSB- THYHOMA	HYNUS		(PRESENT)
•			:
MEDULIARY SINUSES -REACTIVE HYPERPLASIA-N- PRESENCE OF METAS	MEDULLARY SIMUSES -REACTIVE MYPERPLASIA	/OR ENTINKOPANGOCTIOSIS MITHINSS	
-DILE DUCTULE EPITHE -CYSTIC DEGENERATION	-BILE DUCTULE EPITHELIAL HYPERPLASIA -CYSTIC DEGENERATION	AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
KIDNEY	IDNEY		NOT SPECIFIED (MODERATE)
SEMINAL VESICLE			

Appendix J Letternan arny institute of research biv of res supp, path serv gp species: rat/fischer-344	(Cont.): PATHOLOGY INDIVIDUAL ANIMAL STUDY START DATE: 23-JAN-84	ATBOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY HUNBER: GLP83009 TE: 23-JAN-84
170 AH-86	! ! !	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 362.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE		NOT SPECIFIED (PRESENT)
TESTES	:	(PRESENT)
SKIR	TISSUE IS MISSING	TISSUE IS MISSING
MANMARY GLANDS		TISSUE IS MISSING
NOSE/TURBINATES	MASAL CAVITY, SINUSES,	INFILTRATE MEAR MASO-LACRIMAL DUCT. Not specified(Mild)
ADREMAL		NOT SPECIFIED (PRESENT)
PITUITARY GLANDB- ADENOMA		(PRESENT)
EYES & OPTIC N	ERALIZATION, SCLERA	NOT SPECIFIED (PRESENT)
MEDIASTINUM		MISCELLANEOUS TISSUE SEE DIAGNOSIS AND HISTOLOGIC COMMENT UNDER LUMPH NODE.

	GLP83009
T= 171 SE DY DAY OF DEATH	
ORGAN WANE CA GROSS / PHRASES	B S E R V A T I O B S >> SEVERITY GROSS FREE-TEXT CONNENTS
	PRESENT MODERATELY PALE Present Right, Two .23cm, white, opaque
** A I C R O S C O P I C T I T SSUE / MISTOPATHOLOGIC FINDINGS	S S U E O B S E R V A T 1 O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	MURAL THROMBUS IS IN THE ATRIUM NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
LUNGS	
SPLEEN	*OT SPECIFIED(MILD)
LIVER	PERIACINAR
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -Cystic Degeneration -benign hyperplastic module(s) -mecrosis, periacinar	BROSIS NOT SPECIFIED(MODERATE) MULTI-FOCAL (PRESENT) MOT SPECIFIED(MODERATE) MOT SPECIFIED(MODERATE)
PROGRESSIVE REMAL DISEASE	
PROSTATE	
SEMIMAL VESICLE	

Appendix J (cont.): TUTE OF RESEARCH H SERV GP -344 STUDY START	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
171 SEX: MALE OF DEATH: 723	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 385.00 (GMS)
CROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
ADREMAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	INDIVIDUAL DATA REPORT GLP83009
172 SEX: WALE 16 DEATH: 739	
C G R O S S O R G A N O B KEYLORDS / PHRASES	S E R V A T I O M S ->> SEVERITY GROSS FREE-TEXT COMMENTS
PITUITARY GLAND ENLARGED PRESENT MAMMARY GLAND PROMINENT PRESENT	4 X SMM, DARK RED AXILLARY REGION, BILATERAL, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIMsusacute inflammation	FOCAL (TRACE)
MEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LYMPH MODES	REACTIVE HYPERPLASIA LIMITED TO CERVICAL NODES. Not specified (present)
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
TESTES	SMALL INTERSTITIAL CELL ADENONAS WERE DETECTED MICROSCOPICALLY In Both Testes. These tumors are too small to be evident on gross examination. (Present)

Appendix LETTERNAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 ANIMAL NUMBER: 172/PRETEST DATE OF DEATH: 30-JAN 86 STUDY DAY (115SUE / MISTOPATHOLOGIC FINDINGS -GALACTOCELE(S)	STUDY ST. 172 SEX: MALE OF DEATH: 739	STUDY S TYZ SEX: MALE 172 SEX: MALE 16 DEATH: 739	7 STALE	STUDY START DATE ANIMAL STUDY START DATE: 23-JAN-64 172 SEX: MALE DOSE GROUP: 3 OF DEATH: 739 STUDY WEEK OF DEATH: 739 STUDY WEEK OF DEATH: 739 STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WEEK OF DESTRIE TO BE STUDY WE WENT STUDY WE WENT STUDY WE WE WENT STUDY WE WE WENT STUDY WE WE WE WE WE WE WE WE WE WE WE WE WE		A MARKA IVIDUAL AMINAL DATA REPORT 1VIDUAL AMINAL DATA REPORT 1VIDUAL AMINAL DATA REPORT 1VIDUAL AMINAL DATA REPORT 1VIDUAL AMINAL DATA 1VIDUAL AMINAL DATA 1VIDUAL AMINAL DATA 1VIDUAL AMINAL DATA 1VIDUAL AMINAL 1VIDUAL AM	TICE ST. TERM S ON S ON S ON THE ST. T	STUDY ATUS: FIN INAL BODY SPECIAL SPECIAL SSUE OBSE SLESION TISSUE,	PRINTED: 21-NOV-89 PAGE: 357 STUDY TYPE: CHRONIC/2 YR CARCINGENIC S: FINAL SACRIFICE L BODY WEIGHT: 371.00 (GMS) PECIAL COMMENTS E OBSERVED GROSSLY IS A GALACTOCELE. E SION THERE ARE SMALL FOCI OF ISSUE, PROBABLY THE RESULT OF AN	PRINTED: 21- PAGE: 357 NHIC/2 YR CARCI CE 371.00 (GMS) ILY IS A GALACT SMALL FOCI OF THE RESULT OF	PRINTED: 21-NOV-89 PAGE: 357 C/2 YR CARCINGENI 371.00 (GMS) IS A GALACTOCELE. ALL FOCI OF E RESULT OF AN	V-89 GENIC	
MOSE/TURBINATES		, MASAL CAVITY, SINUSES	× .	NUSES,	:	NFILTR OT SPE	INFILTRATE: BILATERAL NEAR NASO-LACRIMAL DUCTS Not specified(MILD)	ERAL NE	AR MASO-L	ACRIMAL DU	CTS		
ADREMAL	LATED	•			:	OT SPE	NOT SPECIFIED(TRACE)	(9)					
PITUITARY GLAND		:			:	(PRESENT)	_						
-METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	WERALI	ZATION	SCLE	₹	- O & z :	HE LEN APSULA EEN EV OT SPE	THE LENSES OF BOTH EYES HAVE CHANGES CONSISTENT WITH EARLY SUB- CAPSULAR CATARACT FORMATION. THESE WILD CHANGES MAY NOT HAVE BEEN EVIDENT ON GROSS EXAMINATION.	FORMATI FORMATI ROSS EX/ SENT)	IAVE CHAN ION. THE IMINATION	GES CONSIS SE MILD CH	TENT WITH	EARLY S Not hav	SUB ·

STUDY OF RES SUPP, PATH SERV GP SEARCH STUDY STUDY WUNDER: SPECIES: RAT/FISCHER-344 STUDY WUNDER: STUDY WUNDER:	ANIMAL DATA REPURT NUMBER: GLP83009 -JAN-84 -JAN-84
HALE 723	SACRIFICE STATUS: SACRIFICED DEATH: 104 TERMINAL BODY WEIGHT:
MANE KEYLORDS / PHRASES	
KIDNEY DISCOLORATION PRESENT TESTES GROUTH(S) / MASS(ES) PRESENT PITUITARY GLAND ENLARGED PRESENT LIVER PROXIMENT LOBULAR MARKINGS PRESENT	FOCAL, MINUTE, MULTIPLE, WHITE Bilateral, Multiple Variably Sized, white .34cm Diameter
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
PARATHYROID	SILSSING IS NISSING
MEART	NOT SPECIFIED (MODERATE)
LUNGSMINERALIZATION OF PULMONARY ARTERIES	NOT SPECIFIED (MODERATE)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) FOCAL (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MARKED)
PROSTATE	NOT SPECIFIED(MODERATE) Not specified(MILD)
TESTES	

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	DATA
INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-Jam-84	PRINTED: 21-NOV-89 PAGE: 359 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 173/PRETEST# 173 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND DATE OF DEATH: 16-JAN-86 STUDY DAY OF DEATH: 723 STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 285.	RIFICED MORIBUND WEIGHT: 285.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS C O P I C T I S S U E O B S E R V A T I O N S >> TISSUE / MISTOPATHOLOGIC FINDINGS	CONNENTS
TESTES	
RECTUM TISSUE IS MISSING	
MAMMARY GLANDS	
ADRENAL	
PITUITARY GLAND	
EYES & OPTIC N	AR CATARACT IS UNILATERAL

J (cont.): IN STUDY START	PATHOLOGY INDIVIDUAL ANIMAL DATA DIVIDUAL ANIMAL DATA REPORT STUDY WUNBER: GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
174 SEX: MALE IF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 345.00 (GMS)
IAME KEYUORDS / PERASES	T 1 0 GROSS
GRANULAR SURFACE PRESENTAGED PRES	TERAL AXILLARY, .5CM DIAM
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SALIVARY GLAND	FOCAL (TRACE)
MEART	NOT SPECITIED(MILD) NOT SPECIFIED(TRACE)
LUNGSALVEOLAR HENORRHAGE	FOCAL (PRESENT)
-BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR A'TERATION - CLEAR CELLS -FOCUS OF CELLULAR A'TERATION - CLEAR CELLS	NOT SPECIFIED(MODEKATE) MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MARKED)
PROSTATE	NOT SPECIFIED (TRACE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

STUDY STAR	DATA REPORT GLP83009
174 SEX: MALE OF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FIMAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 345.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESEMT)
PANCREAS	FOCAL (MILD)
MAMMARY GLANDS	THE ENLARGED LESION IN THE LEFT AXILLARY AREA THAT WAS THOUGHT TO BE A LYMPH NODE ON GROSS EXAMINATION IS AN AREA OF MAMMARY MYPERPLASIA AND A GALACTOCOELE. NOT SPECIFIED(MARKED) NOT SPECIFIED (PRESENT)
MOSE/TURBINATESACUTE INFLAMMATION	FOCAL(MILD)
ADREMAL	NOT SPECIFIED (PRESENT) (PRESENT)
FYES & OPTIC N	THE CATARRACT IS UNILATERAL. NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MEDIASTIMUM	MISCELLANEOUS TISSUE MOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
IND I	DATA REPORT GLP83009
5/PRETEST= 175 SEX: MALE 5 STUDY DAY OF DEATH: 613	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 88 TERMINAL BODY WEIGHT: 386.00 (GMS)
R C N C B	T 1 O N S >> GROSS FREE-TEXT COMMENTS
EYES & OPTIC N. CORNEAL OPACITY SPLEEN ENLARGED (SPLENOMEGALY) PRESENT	BILATERAL
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	TISSUE IS MISSING RECUTS OF BLOCK #3 FAILED TO DEMONSTRATE PARATHYROID GLAND.
LACRIMAL GLAND	NOT SPECIFIED(TRACE)
EXORBITAL LACRIM	TISSUE IS MISSING
MEART	NOT SPECIFIED(MILD)
SPLEEM	THIS IS A CASE OF VERY EARLY LGLL. MEOPLASTIC CELLS ARE PRESENT BUT NOT IN THE LARGE MUMBERS USUALLY SEEN. HOT SPECIFIED(MODERATE) (PRESENT) NOT SPECIFIED (PRESENT)
LYMPH HODES	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
KIDMEY	

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

UTE OF RESEARCH Serv GP 344	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 Y
175 SEX: MALE DEATH: 613	SACRIFICE ST
TISSUE / MISTOPATMOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDWEY	NOT SPECIFIED(TRACE)
PROSTATE	THERE IS A SMALL MICROLITH IN THE PROSTATIC URETHRA. Not specified(mild) Not specified (mild)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
BONE, STERRUM	NOT SPECIFIED (PRESENT)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
BONE VERT	NOT SPECIFIED (PRESENT)
ADREMAL	ONLY ONE ADRENAL GLAND AVAILABLE FOR EXAMINATION
PITUITARY GLAND	(PRESENT)
-RETIMAL ATROPHY AND/OR DEGENERATION, UNILATERAL OR BILATERAL -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	CATARRACT WAS SUBCAPSULAR AND UNILATERAL INVOLVING THE SAME EYE AS THE RETIMAL DEGEMERATION NOT SPECIFIED(MARKED) NOT SPECIFIED (PRESENT)

Appendix	ה ה	J (cont.):	::	PAT	HOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		STU	DY STAF	INDIVIDI STUI IT DATE:	INDIVIDUAL ANIMAL DATA REPO Study Number: Glp83009 Study Start Date: 23-jam-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T date: 23-jan-64	STUDY	TYPE: CHRON	PRINTED PAGE IC/2 YR	PRINTED: 21-MOV-89 PAGE: 364 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 175/PRETEST= DATE OF DEATH: 26-SEP-85 STUDY DAY	175 SEX: NAI OF DEATH: 613	175 SEX: NALE DEATH: 613	NALE 13	DOSE	DOSE GROUP: 3 STUDY WEEK OF DEAT	175 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND OF DEATH: 613 STUDY WEEK OF DEATH: 88 TERMINAL BODY WEIGHT: 386.00 (GMS)	TATUS: SACI	SACRIFICE STATUS: SACRIFICED MORIBUND 86 TERMINAL BODY WEIGHT: 386.	18UND 386.00	(GNS)
TISSUE / MISTOPATHOLOGIC FINDINGS	0	5	- -	7 . S S C E	2 & O	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS	•	
EAR TISSUE IS MISSING				•	TISSUE	IS MISSING				
AD SEBACIOUS TISSUE IS MISSING		•			TISSUE	IS MISSING				
WHOLE BODY	VII.			IIA	(PRESENT)	2				

OR G A M OB S E R V A T 1 O M S S CRIMAL BODY WEIGHT: 327. OR G A M OB S E R V A T 1 O M S S S CRIMAL BODY WEIGHT: 327. OR G A M OB S E R V A T 1 O M S S S CRIMAL BODY WEIGHT: 327. ASS(ES) PRESENT BILATERAL, MUPTIPLE VARIABLY SIZED, YELLOW/RED PRESENT BILATERAL, MUPTIPLE VARIABLY SIZED, YELLOW/RED ACE PRESENT BILATERAL, MUPTIPLE VARIABLY SIZED, YELLOW/RED ACE PRESENT BILATERAL, MUPTIPLE VARIABLY SIZED, YELLOW/RED ACE S S CRIMACK FOCUS PRESENT BILATERAL, MUPTIPLE VARIABLY SIZED, YELLOW/RED ACE S S CRIMACK FOCUS PRESENT BOTOM (SEVERTY) / SPECIAL COMMENTS S COMPANY S S COMPANY S S COMPANY S S CRIMACK S S CRIMAC	STUDY START DA	INDIVIDUAL ANIMAL DAIA DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2
CONTROL CONT	PRETESTS 176 SEX: MALE STUDY DAY OF DEATH: 739	FICE STATUS: FINAL SACRIFICE TERNINAL BODY WEIGHT:
GROUTH(S) / MASS(ES) PRESENT GRANULAR SURFACE GRANULAR SURFACE PRESENT CLAND GROUTH(S) / MASS(ES) PRESENT CLAND GROUTH(S) / MASS(ES) PRESENT CLAND CAN I CR O S C O P I C T I S S U E DISTRIBUTION (SEVERITY) / SPE GLAMDS GLAMDS GLAMDS GLAMDS GLAMDS GLAMDS HISTOPATHOLOGIC FINDINGS HYPERTROPHY WODATHY WODATHY WODATHY WODATHY WOT SPECIFIED (TRACE) CTIC VACUOLIZATION CTIC VACUOLIZATION OF CELLULAR ALTERATION - EOSINOPHILIC CELLS WOT SPECIFIED (TRACE) WOT SPECIFIED (TRACE) WOT SPECIFIED (TRACE) SSIVE REMAL DISEASE CPROSTATITIS WOT SPECIFIED (MODERATE) WOT SPECIFIED (MODERATE) WOT SPECIFIED (MILD)	A G R O S S O R G A E O S S EVE	T I O X S YY GROSS FRE-TEXT COMMENTS
MISTOPATHOLOGIC FINDINGS GLANDS A-FOLLICULAR CELL ADENOMA MYDPATHY MYDTHY MYDPATHY MYDTHY	GROWTH(S) / MASS(ES) GRAWLLAR SURFACE GRAWL DISCOLORATION D GROWTH(S) / MASS(ES)	BILATERAL, MUPTIPLE VARIABLY SIZED, YELLOW/RED BILATERAL, 2CM DIANETER, BLACK FOCUS .3CM DIANETER, DARK RED, SEMI-FIRM
GLANDS A-FOLLICULAR CELL ADENOMA MYOPATHY M	0800010 11880	S E R V A T 10 K S RIBUTION (SEVERITY)
NYOPATHY NYOPATHY NYOPATHY LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT TIS CYTIC VACUOLIZATION OF CELLULAR ALTERATION - EOSINOPHILIC CELLS NOT SSIVE REMAL DISEASE NOT NYPERPLASIA	CULAR CELL ADENOMA	PRESENT)
LIZATION OF PULMONARY ARTERIES UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT TIS CYTIC VACUOLIZATION OF CELLULAR ALTERATION - EOSINOPHILIC CELLS NOT SSIVE REMAL DISEASE NOT HYPERPLASIA NOT	DIONYOPATHY IAL HYPERTROPHY OF MUSCULAR ARTERI	
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT TIS CYTIC VACUOLIZATION OF CELLULAR ALTERATION - EOSINOPHILIC CELLS NOT SSIVE REMAL DISEASE C PROSTATITIS NOT HYPERPLASIA	LUMGS	
SSIVE REMAL DISEASE NOT PROSTATITIS NOT NOT	E DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS ATITIS ATOCYTIC VACUOLIZATION US OF CELLULAR ALTERATION - EOSIMOPHILIC CELLS	
C PROSTATITIS NOT NOT NOT NOT NOT NOT NOT NOT NOT NOT	RESSIVE REMAL DISEASE	
	C PROSTATITIS HYPERPLASIA	

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Appendix

STUDY STAR	DATA REPORT GLP83009
PRETEST 176 SEX: MALE STUDY DAY OF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 327.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	(PRESERT)
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
E OF RESEARCH INDI	DATA REPORT GLP83009
ALE 9	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 387.00 (GMS)
C G R O S S O R G A N O B KEYLORDS / PMRASES	T I O N S >>
TESTES ENLANGED PRESENT TESTES GROUTN(S) / MASS(ES) PRESENT KIDDEY CYST PRESENT	LEFT, 2.75 X 1.75CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK .5CM DIAMETER, RIGHT ANTERIOR POLE
TISSUE / WISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	MOT SPECIFIED(TRACE)
LUNGSVASCULAR CONGESTION	DIFFUSE (PRESENT)
LYMPH MODES	ERYTHROPHAGOCYTOSIS AND HEMOSIDEROSIS ARE PRESENT IN CERVICAL LYMPH MODES. Not specified (present)
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
SEMINAL VESICLE	

PATHOLOGY INDIVIDUAL ANIMAL DATA Appendix J (cont.):

STUDY STAR	DATA REPORT GLP83009
ETEST 177 SEX: MALE STUDY DAY OF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 387.00 (GMS)
TISSUE / MISTOPATNOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE: SUPPURATIVE, BILATERAL MEAR NASO-LACRIMAL DUCTS. Not specified(moderate)
ADREMALFOCUS OF CELLULER ALTERATION, EOSINOPHILIC	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	MOT SPECIFIED (PRESENT)

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Appendix

	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: CHRONIC/2 YR CARCINGENIC
UMBER: 178/ DEATH: 30-JAH-86	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 391.00 (GMS)
A G R O S KEYLORDS / PARA	<
TESTES GROWINGS) / MASS(ES) TESTES ENLARGED	PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW Present Left, 3 x 1.5cm
TISSUE / MISTOPATMOLOGIC FINDINGS	SSUE DESERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LACRIMAL GLAND	MULTI-FOCAL(TRACE)
NEART	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
LIVER -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - CLEAR CELLS -CYSTIC DEGENERATION	IBROSIS NOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MOT SPECIFIED(TRACE) MULTI-FOCAL (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	FOCAL(TRACE) MOT SPECIFIED(TRACE)
SEMIMAL VESICLE	

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
178 SEX: MALE OF DEATH: 739	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 391.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	FOCAL (PRESENT)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009
179/PRETEST= 179 SEX: MALE 03-FEB-86 STUDY DAY OF DEATH: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 409.00 (GMS)
C G R O S S O R G A M O B KEYWORDS / PHRASES	S E R V A T I O M S >> SEVERITY GROSS FREE-TEXT COMMENTS
LIVER DISCOLORATION PRESENT TESTES GROUTH(S) / MASS(ES) PRESENT PITUITARY GLAND DISCOLORATION PRESENT	PALE BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW FOCAL, BLACK, .2CM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	TISSUE IS MISSING
HEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH NODES	REACTIVE HYPERPLASIA PRESENT IN BOTH CERVICAL AND MESENTERIC LYMPH NODES. Not specified (present)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS	NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
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Appendix

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHROMIC/2 YR CARCINGENIC
ANIMAL NUMBER: 179/PRETEST= 179 SEX: MALE DOSE GROUP: 3 DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 409.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
NIXS	SAISSIE IS MISSING
NAMMARY GLANDS TISSUE IS MISSING	TISSUE IS MISSING
MOSE/TURBINATES	SUBACUTE INFLAMMATION IS BILATERAL INVOLVING LATERAL ASPECTS Of the Ventral Masal Meatus. Not Specified(Trace)
ADREMAL	NOT SPECIFIED (MODERATE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATH(PATHOLOGY INDIVIDUAL ANIMAL DATA
I STUDY START	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
180 SEX: MALE F DEATH: 743	UP: 3 SACRIFICE STATUS: FINAL SACRIFICE EK OF DEATH: 107 TERMINAL BODY WEIGHT: 353.00 (GMS)
A GROSS ORGAN OS KEYUORDS / PHRASES	T I O N S >> GROSS FREE-TEXT C
SUBCUTANEOUS MASS TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT TESTES GROUTH(S) / MASS(ES)	OVOID .5 X .25CM, RED, INGUIANAL AREA LEFT, 1.75 X 1CM RIGHT, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED (MILD) NOT SPECIFIED (TRACE)
LUMGS PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LIVER	NOT SPECIFIED(MARKED) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
KIDNEYPROGRESSIVE REKAL DISEASE	. NOT SPECIFIED (MARKED)
PROSTATE	NOT SPECIFIED (MILD)
SEMINAL VESICLE	. NOT SPECIFIED (PRESENT)
TESTES	. MILD TUBULAR ATROPHY AND INTERSTITIAL CELL HYPERPLASIA INVOLVE The Small Testis (Left) which has no interstitial cell tumor. Not specified(Trace)

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
TE OF RESEARCH IND Serv GP 44 Study Start D	JATA REPORT GLP83009
EST= 180 SEX: MALE TUDY DAY OF DEATH: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERNINAL BODY WEIGHT: 353.00 (GMS)
E FIED	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT)
PANCREAS	NOT SPECIFIED (MODERATE)
**************************************	THE SUBCUTANEOUS MASS IN THE INGUINAL AREA NOTED GROSSLY IS PROBABLY THE GALACTOCELE CODED UNDER MAMMARY GLAND.
MAMMARY GLANDS	THE GALASTOCELE PROBABLY CORRESPONDS TO THE SUBCUTANEOUS MASS NOTED GROSSLY IN THE INGUINAL AREA. NOT SPECIFIED (TRACE)
MOSE/TURBINATES	INFILTRATE NEAR NASO-LACRIMAL DUCT.
ADREMAL	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	THE CARATACT IS SUBCAPSULAR AND UNILATERAL. IT IS CHARACTERIZED HISTOLOGICALLY BY THE PRESENCE OF LARGE NUCLEATED CELLS IN THE SUBCAPSULAR AREA. THIS IS AN EARLY CHANGE THAT MAY NOT HAVE BEEN DETECTED GROSSLY.

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PATHOLOGY	INDIVIDUAL ANIMAL DATA REPORT
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Appendix J	NSTITUTE OF RESEARCH

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E OF RESEARCH ERV GP 4	L ANIMAL DATA REPORT NUMBER: GLP83009 3-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
LE	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 375.00 (GMS)
ES A Z O B	
KIDMEY GRANULAR SURFACE MANMARY GLAND PROMINENT PITUITARY GLAND ENLARGED PRESENT	BILATERAL, AXILLARY REGION .SCM DIAMETER, RED/BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEARTCARDIOMYOPATHY	NOT SPECIFIED (MILD)
LUNGSVASCULAR CONGESTION	NOT SPECIFIED (PRESENT)
LYMPH MODES	REACTIVE HYPERPLASIA LIMITED TO CERVICAL LYMPH WODES.
LIVERBILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(MARKED) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	INFILTRATE: UNILATERAL, NEAR NASO-LACRIMAL DUCT. Not specified(moderate)
ADREMAL	

IMAL DATA PRINTED: 21-NOV-89 PAGE: 376 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 375.00 (GMS)				
RINTEI Pagi /2 yr	75.00	• • • • • • • • • • • • • • • • • • •			
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EDUZ ORT	RIFI	EVER	ODER/		PRESE
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INI	DEAT	E E	EC1 F	5	ECLFI
SILD : PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	NOT SPECIFIED(NODERATE)	(PRESENT)	NOT SPECIFIED (PRESENT)
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Appendix of Research tv GP	161/PRETEST= 18-86 STUDY	AA M I C R O S G O OGIC FINDINGS	TON		N NO
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11110 ATH IER-3	FEB	0000	R AL		FOR
T IN P	03-	DPATI	ורתרץ	e	t. BONE
ARH S SUI	MIMAL NUMBER: 181/PRETEST= ATE OF DEATH: 03-FEB-86 STUDY DAY OF	HIST(-FOCUS OF CELLULAR ALTERATION, VACUOLATED	GLAI	11C) ST1C
RMAN F RE	10 20	<u>ال</u> ا ′	AL US O	TARY	A OP
Appendix Letterman army institute of Research DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ANIMAL MUMBER: 181/PRETESTS DATE OF DEATH: 03-FEB-86 STUDY DAY OF	TISSUE / NISTOPATHOLOGIC FINDINGS	ADRENAL - FOCUS	PITUITARY GLAND -B- ADENOMA	EYES & OPTIC W
			-	_	_

LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH STUDY START	DATA REPORT GLP83009
: •	182 SEX: MALE OF DEATH: 743	UP: 3 SACRIFICE STATUS: FINAL SACREK OF DEATH: 107 TERMINAL BODY WEIGHT
	S ORGAN OS	A T I O N S >> GROSS FREE-TEXT
TESTES GROOM	GROWTH(S) / MASS(ES) PRESENT ENLARGED PRESENT GROWTH(S) / MASS(ES) PRESENT GRANULAR SURFACE TRACE	IT DERMAL, ULCERATED, .5CM DIAMETER, NEAR PENIS IT RIGHT, 2.75 x 1.75CM IT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	MICROSCOPIC TISSUE FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	CULAR ARTERIES	MOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
-BILE DUCTULE EPITHELIAL HYPERPLASIA A - FOCUS OF CELLULAR ALTERATION - CLEAR	YPERPLASIA AND/OR CHOLANGIOFIBROSIS ION - CLEAR CELLS	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
KIDNEY		NOT SPECIFIED (MODERATE)
PROSTATE		NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
SEMIMAL VESICLE		NOT SPECIFIED (PRESENT)
-B- INTERSTITIAL CELL ADENOMA	ONA	(PRESENT)
PANCREAS		FOCAL(TRACE)

Appendix	ט	(cont.):	r.):	PAT	HOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	C ANIMAL	DATA		
LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCNER-344		STU	IDY STA6	INDIVIC STU	INDIVIDUAL ANIMAL DATA REPO Study Mumber: Glp83009 Study Start Date: 23-jam-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T date: 23-jan-84	STUDY	TYPE: CHR(PRINTED: 21-NOV-89 PAGE: 378 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	1-NOV-89 78 CINOGENIC
ANIMAL NUMBER: 182/PRETEST= 162 SEX: MAL DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743	18. 0 P.	182 SEX: MALE DEATH: 743	MALE '43	00SE 8TUB	GROUP: 3	EX: MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE H: 743 STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 366.00 (GMS)	E STATUS: FI	NAL SACRIF Y WEIGHT:	1CE 366.00 (GHS)	· · · · · · · · · · · · · · · · · · ·
TISSUE / NISTOPATHOLOGIC FINDINGS		ບ ພ		TISSUE	O B S DISTRI	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	IS >>	L COMMENTS		1 1 0 6 0 1 1 2
SKIN					(PRESENT)	7				
PITUITARY GLAND					(PRESENT)	٤				

	Appendix	J (cont.): PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344	STUDY STAR	DATA REPORT GLP83009
ANIMAL NUMBER: 163, DATE OF DEATH: 03-FEB-86	/PRETEST= STUDY DAY	183 SEX: MALE OF DEATH: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 387.00 (GMS)
ORGAN NAME	ORGAN MANE CETURDS / PURSES	ORGAN OBSERVA	V A T I O N S >> IY GROSS FREE-TEXT COMMENTS
7ESTES	GROUTH(S) / MASS(ES)	SS(ES) PRESENT	T LEFT, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOR	<pre><</pre>	0 P I C T I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	OPHY OF MUSCULAR ARTER	IES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	UNGS		MOT SPECIFIED(TRACE)
LYMPH HODES	RED BLOOD CEELS, MEMOSIDERIN AND/OR IMPULLARY SINUSES	ERYTHROPHAGOCYTOSIS WITHIN	ERYTHROPHAGOCYTOSIS AND HEMOSIDEROSIS WERE PRESENT IN THE CERVICAL LYMPH NODES.
-BILE DUCTULE EPITMELIAL M -MEPATOCYTIC VACUOLIZATIOM -FOCUS OF CELLULAR ALTERAT -MEPATOCYTE COALESCING MICI	TPERPLASIA 10M - EOSIN ROVESICULAR	AND/OR CHOLANGIOFIBROSIS IOPHILIC CELLS (FATTY) CHANGE LEADING TO	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD)
KIDNEY	IDMEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(MILD)
-CHRONIC PROSTATITIS -BENIGN NYPERPLASIA -NICROCALCULI, PROST	COSTATE		MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
183 SEX: MALE DEATH: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 387.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
COAG GL	TISSUE IS MISSING
SENIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTESTROPHY -TUBULAR ATROPHY -INTERSTITIAL CELL HYPERPLASIA -B- INTERSTITIAL CELL ADENOMA	TUBULAR ATROPHY AND INTERSTITIAL HYPERPLASIA PRESENT IN RIGHT TESTIS WHICH CONTAINS NO TUMOR DIFFUSE(MODERATE) FOCAL(TRACE) (PRESENT)
MOSE/TURBINATES	
ADREMAL	(PRESENT)
PITUITARY GLAND	(PRESENT)
-CORNEAL MINERALIZATION -CORNEAL WASCULARIZATION -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	FOCAL(TRACE) Focal(Trace) Not Specified (Present)

Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	-
ANIMAL NUMBER: 184/PRETEST# 184 SEX: MALE DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 380.00 (GMS)
C G B O S S O R G A R O S C KEYLORDS / PHRASES	· <
GROUTH(S) / MASS(ES) GROUTH(S) / MASS(ES)	PRESENT RIGHT UPPER LIP, FIRM, WHITE, .3CM DIAMETER PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(TRACE)
-MEPATITIS -MEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -CYSTIC DEGENERATION -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS -MEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO	NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) 1 TO MULTI-FOCAL(TRACE)
KIDNEY	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
PANCREAS	NOT SPECIFIED(MODERATE)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344	
184 SEX: MALE Death: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 380.00 (GMS)
TISSUE / MISTOPATMOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SKIN	THE NODULE ON THE LIP THAT WAS OBSERVED GROSSLY IS A BASAL CELL Tumor.ule on the Lip that was observed grossly is a basal cell Focal(trace) (present)
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	SES, MOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

STATE MAINTENERS MAINTENE	LETTERMAN ARNY INSTITUTE OF RIDIY OF RES SUPP. PATH SERV GP	ESEARCH	=	INDIVIDUAL ANIMAL STUDY NUMBER:	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 383
METAPORTICE METAPORT METAPO	SPECIES: KAI/FISC	105/PRETEST= -FEB-86 STUDY DAY 0	: 50	DOSE GROUP: 3	SIGNATURE STATUS: FINA F DEATH: 107 TERMINAL BODY	LE SACRIFICE MEIGHT: 356.00 (GMS)
ENLARGED GROWTH(S) / MASS(ES) PRESENT RIGHT, 3 X 20H GROWTH(S) / MASS(ES) PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW GROWTH(S) / MASS(ES) GLANDS GLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) MOT SPECIFIED (TRACE) HISTOPATHOLOGIC FINDINGS GLICULAR CELL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS MOT SPECIFIED (TRACE) HOT SPECIFIED (RACE) HOT	ORGAN NAME	<pre><< G R O S S KEYWORDS / PHRA</pre>	2 V S W	- 5	ONS >> SFREE-TEXT COMMENTS	
MISTOPATHOLOGIC FINDINGS LIZATION OF PULMONARY ARTERIES STORE EDITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS OF CELLULAR ALTERATION - CLEAR CELLS OF CELLULAR ALTERATION - CLEAR CELLS SSIVE RENAL DISEASE THER IS CHRONIC INFLAMMATION OF THE URETHRA AT THE PROSTATE. THE URETHRA AT THE PROSTATE. THER PROSTATITIS NOT SPECIFIED (MILD) NOT SPECIFIED (MACE) NOT SPECIFI		ENLARGED GROUTH(S) / MAS	 (ES)		T, 3 X 2CM Teral, multiple variably sized	, YELLOW
MOT SPECIFIED (TRACE) WOT SPECIFIED (MACE) WOT SPECIFIED (MACE) WOT SPECIFIED (MILD) WATERNALL DISEASE WATERNALL WOT SPECIFIED (MACE) WATERNALL WOT SPECIFIED (MACE) WATERNALL WOT SPECIFIED (MACE) WATERNALL WOT SPECIFIED (MACE) WATERNALL WAT	TISSUE / HISTOPAT		8 I C I I 8	<u> </u>	SERVATIONS >> RIBUTION (SEVERITY) / SPECIAL	COMMENTS
MOPATHY LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES WOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) LIZATION - EOSINOPHILIC CELLS NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) SSIVE REMAL DISEASE NOT SPECIFIED (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (MILD) THE RE IS CHRONIC INFLAMMATION OF THE URETHRA AND THE PROSTATE) MATERIALS NOT SPECIFIED (TRACE)	THYROID GLANDS PARA-FOLLICULAR	CELL HYPERPLASIA ("C"	CELL, LIGHT		SPECIFIED (TRACE)	
LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES LIZATION OF PULMONARY ARTERIES LICULAR ALTERATION - CLEAR CELLS DEGENERATION OF CELLULAR ALTERATION - CLEAR CELLS NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) NOT SPECIFIED (MILD) THERE IS CHRONIC INFLAMMATION OF THE URETHRA AT THE PROSTATE. THE URETHRA CONTAINS INSPISSATED MATERIALS NOT SPECIFIED (TRACE) THE PROSTATITIS NOT SPECIFIED (TRACE)	-CARDIONYOPATHY				SPECIFIED(TRACE)	
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED(TRACE) OF CELLULAR ALTERATION - CLEAR CELLS NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MULTI-FOCAL(TRACE) IS AND MINERALIZATION SSIVE REMAL DISEASE NOT SPECIFIED(MILD) THER IS CHRONIC INFLAMMATION OF THE URETHRA AT THE PROSTATE. THE URETHRA CONTAINS INSPISSATED MATERIAL. NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)	LUNGS	OF PULMONARY ARTERIES	•	:	SPECIFIED (TRACE)	
SSIVE REMAL DISEASE SSIVE REMAL DISEASE THERE IS CHRONIC INFLAMMATION OF THE URETHRA AT THE PROSTATE. THE URETHRA CONTAINS INSPISSATED MATERIAL. C PROSTATITIS MYPERPLASIA NOT SPECIFIED(TRACE)	-BILE DUCTULE EP-FOCUS OF CELLULCYSTIC DEGENERA-FOCUS OF CELLUL-NEPATOCYTE COALI	ITHELIAL HYPERPLASIA A AR ALTERATION - CLEAR TION AR ALTERATION - EOSINO ESCING MICROVESICULAR NERALIZATION	WD/OR CHOLANGIOFIBI CELLS PHILIC CELLS (FATTY) CHANGE LEAT	: MOT MOT MOT MOT MOT MULT	SPECIFIED(MILD) SPECIFIED(TRACE) SPECIFIED (PRESENT) SPECIFIED(TRACE) I-FOCAL(TRACE)	
THE PROSTATE. THE URETHRA CONTAINS INSPISSATED NATERILS CHRONIC INFLAMMATION OF THE URETHRA CONTAINS INSPISSATED NATERIAL. NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)	KIDNEY			NOT S	SPECIFIED (MILD)	
	-CHRONIC PROSTAT:	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			E IS CHRONIC INFLAMMATION OF T PROSTATE. THE URETHRA CONTAIN RIAL. SPECIFIED(TRACE)	HE URETHRA AT THE LEVEL OF IS INSPISSATED EOSINOPHILIC

Appendix J (cont.): PATHOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA
INC STUDY START C	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
MBER: 185/PRETEST# 185 SEX; MALE EATH: 03-FEB-86 STUDY DAY OF DEATH: 743	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 356.00 (GMS)
P.C. 1.55 C.E.	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SEMEMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	<u>c</u>
MAMMARY GLANDS	NOT SPECIFIED (MODERATE)
MOSE/TURBINATES INFILTRATION, WASAL CAVITY, SIMUSES, NOT SPITURBINATES, MASO-LACRIMAL DUCTS	
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
,	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
PRETEST= 186 S STUDY DAY OF DEAT	DOSE GROUP: 3 SACRIFIC STUDY WEEK OF DEATH: 107
A G R O S S KEYWORDS / PHRA	OBSERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS
TESTES GROWTH(S) / MASS(ES) PITUITARY GLAND ENLARGED	PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW PRESENT DARK RED, .5CM DIAMETER
TISSUE / HISTOPATHOLOGIC FINDINGS	ISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TMYROID GLANDS	(PRESENT)
HEART	HOT SPECIFIED (MODERATE)
LUNGSLYMPHOID NYPERPLASIA	NOT SPECIFIED(TRACE)
SPLEEN	THERE ARE NO CHANGES IN THE SPLEEN MICROSCOPICALLY WHICH WOULD ACCOUNT FOR THE "INTRA-ABDOMINAL SPLENIC MASS" DETECTED CLINICALLY. THE SIZE OF THE SPLEEN ON SECTION IS WITHIN NORMALL LIMITS.
LIVER	OFIBROSIS NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT)
FROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MARKED)
PROSTATE	

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 186/PRETEST= 186 SEX: MALE DOSE G DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 391.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	, (PRESENT)
PANCREAS	(PRESENT)
TONGUE	. HULTI-FOCAL(TRACE)
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

	Appendix J (cont.): PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF REDIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH INDIVID STUDY START DATE:	DATA REPORT GLP83009
ANIMAL NUMBER: 16 DATE OF DEATH: 08-NOV-8	187 SEX: MALE F DEATH: 656	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 94 TERMINAL BODY WEIGHT: 380.00 (GMS)
ORGAN NAME	CROSS ORGAN OBSERVA ORGAN WAME KEYWORDS / PHRASES SEVERITY	
TESTES	DISCOLORATION PRESENT FIRM WHITE MASS PRESENT	MOTTLED RED, WHITE AND GRAY. GELATINOUS CONSISTENCY. IRREGULAR, 1.2 X 1.4CM, EXTENDS INTO THE SUBCAPSULAR CORTEX
LIVER EYES & OPTIC M.	DISCOLORATION PRESENT CRUSTY MATERIAL, PERIORBITAL PRESENT	ONE FOCAL, WHITE, .5 X .3CM, LEFT LATERAL LOBE VISCERAL SURFACE
TISSUE / HISTOP	CROSCOPIC TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAINB- ASTROCYTOMA	TROCYTOMA	. (PRESENT)
THYROID GLANDS -PARA-FOLLICUL/	HYROID GLANDS	. FOCAL (TRACE)
HEARTCARDIOMYOPATH	EART	NOT SPECIFIED(MILD)
LUNGS	UNGS	NOT SPECIFIED(TRACE)
LIVERBILE DUCTULE E-BENIGH MYPERPL	-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BENIGH HYPERPLASTIC NODULE(S)	NOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD)
KIDNEY	IDNEYPROGRESSIVE RENAL DISEASE -M- SARCOMA NOT OTHERWISE SPECIFIED	NOT SPECIFIED (MODERATE) (PRESENT)
PROSTATE	ROSTATE	FOCAL (TRACE)

Appendix	J (cont.):	nt.)	••	PATH	YOOTO	INDIV	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		STUDY	START	NDIVIDUA Study Date: 2	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAM-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jam-84	PORT 9	STUDY	TYPE: CHRON	PRINTED PAGE NIC/2 YR	PRINTED: 21-NOV-89 PAGE: 388 STUDY TYPF: CHRONIC/2 YR CARCINGENIC
AMIMAL NUMBER: 187/PRETEST= DATE OF DEATH: 08-NOV-85 STUDY DAY OF	187 SEX: MALE OF DEATH: 656	K: MAL : 656	w	DOSE G STUDY	ROUP: 3 WEEK OF	SAI DEATH: 9	CRIFICE ST	ATUS: SACI	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 94 TERMINAL BODY WEIGHT: 380.	380.00 (GNS)	(GNS)
TISSUE / MISTOPATHOLOGIC FINDINGS	0		TISSUE		0 18 18	E R V A	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	>> / SPECIAL	COMMENTS		
PROSTATE					. NOT SPI	ECIFIED()	NOT SPECIFIED(MODERATE)				
SEMINAL VESICLE					NOT SPE	ECIFIED (NOT SPECIFIED (PRESENT)				
TESTES					(PRESENT)	2					
PANCREASACINAR (EXOCRINE) ATROPHY					FOCAL (TRACE)	(RACE)					
MOSE/TURBINATES	NASAL CAVITY, SINUSES,	AVITY	SIN	ISES,	NOT SPE	INFILTRATE BILATERA Not specif'ed(mild)	ITERAL NEAL	NASO-LAC	INFILTRATE BILATERAL NEAR NASO-LACRIMAL DUCTS. Not specif'ed(mild)	ý.	
PITUITARY GLAND					(PRESENT)	•					

Appendix J (c	(Cont.) · PATHOLOGY	COCY INDIVIDUAL ANIMAL DATA
M ARMY INSTITUTE OF RESEARCH ES SUPP, PATH SERV GP RAT/FISCHER-344	INDI ART DA	DATA REPORT GLP83009
8/PRETEST= 5 STUDY DAY OF		SACRIF DEATH: 91
< GROSS OR KEYWORDS / PHRASES	GAN OBSERVA SEVERITY	T 1 0 N S >> GROSS FREE-TEXT COMMENTS
SKIR SUBCUTANEOUS MASS	PRESENT	FIRM, PINK, 4 X 3 X 1.5CM, RIGHT ABDOMINAL REGION
TISSUE / HISTOPATHOLOGIC FINDINGS	CTISSUE	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID		TISSUE IS MISSING
LUNGS		NOT SPECIFIED(TRACE)
LYMPH NODES	ERYTHROPHAGOCYTOSIS WITHIN	NOT SPECIFIED (PRESENT)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHO -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) C HECROSIS AND MINERALIZATION	AND/OR CHOLANGIOFIBROSIS (FATTY) CHANGE LEADING TO	NOT SPECIFIED(MODERATE) Multi-focal(mild)
KIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(TRACE)
PROSTATE		NOT SPECIFIED(TRACE)
SEMINAL VESICLE		NOT SPECIFIED (PRESENT)
SKINB- FIBROMA		

Appendix J (cont.): PATH INDIVIDUAL SET SEARCH INDIVIDUAL SET OF RESEARCH STUDY STUDY STUDY	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009
SPECIES: RAT/FISCHER-344	STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
/PRETEST= 188 SEX: MALE DOSE STUDY STUDY DAY OF DEATH: 634 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND Study Week of Death: 91 Terminal Body Weight: 400.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS TISSUE IS MISSING	TISSUE IS MISSING
ADRENALFOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED(TRACE)
PITUITARY GLAND TISSUE IS MISSING	. TISSUE IS MISSING RECUTS OF BLOCK #18 FAILED TO DEMONSTRATE PITUITARY GLAND.
EYES & OPTIC N	NOT SPECIFIED (TRACE) NOT SPECIFIED (MILD)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGEN
AL WUMBER: 189/PRETEST= 189 SEX: MALE OF DEATH: 23-APR-85 STUDY DAY OF DEATH: 457	_ =
**	GROSS FREE-TEXT COMMENTS
TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	* * KEN ON DOKSAL INCKAX, MOLITICE INFICELOR EROSII FOCI IN AREA OF MAIR LOSS. LEFT, 1.5CM X 7MM RIGHT, MULTIPLE, ANTERIOR POLE, YELLOW, .24CM DIAMETER
C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEARTCARDIOMYOPAINY	NOT SPECIFIED (NODERATE)
LUNGS PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED(MILD)
KIDMEY	NOT SPECIFIED(TRACE)
PROSTATE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS ATROPHY	NOT SPECIFIED(TRACE)

J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	E DOSE GROUP: 3 STUDY WEEK OF DEA	NOT TREE VIOLE	DIFFUSE(MILD)	NOT SPECIFIED (PRESENT)	FOCAL (TRACE)
ر د د		189 SEX: MAI OF DEATH: 457	- - -			
Appendix	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	•	TISSUE / MISTOPATHOLOGIC FINDINGS	-CELLULITIS	MAMMARY GLANDS	-CORNEAL WINERALIZATION

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
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Appendix

The state of the s	LOGI THUTATHOUT ANIMAL DATA
101 H S -34	DATA GLP83
ANIMAL NUMBER: 190/PRETEST# 190 SEX: MALE DOSE GR DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745 STUDY W	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 421.00 (GMS)
C G R O S S O R G A N O B KEYWORDS / PHRASES	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS
EYES & OPTIC N. LENS CATARACT SKIN SKIN SUBCUTANEOUS MASS TESTES ENLARGED GROUTH(S) / MASS(ES) PRESENT RIDNEY GRANULAR SURFACE PRESENT	LEFT SEMI-FIRM, WHITE, RIGHT THORACIC REGION, 2.5 X 2 X 1CM RIGHT, 2.75 X 1.75 BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
LACRIMAL GLAND	MULTI - FOCAL (TRACE)
HEART	NOT SPECIFIED(TRACE)
LUNGS	MULTI-FOCAL (TRACE)
LYMPH NODES	RBC'S AND MEMOSIDEROSIS ARE PRESENT IN CERVICAL MODES ONLY Not specified (present) Not specified (present)
LIVER	MOT SPECIFIED(MILD) FOCAL(TRACE) WULTI-FOCAL(TRACE) FOCAL(TRACE)
KIDNEY -PROGRESSIVE RENAL DISEASE -CYST(S) CORTICAL	MOT SPECIFIED(MODERATE) Multi-focal (present)
PROSTATE	

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-64	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
190 SEX: MALE DEATH: 745	
8	D S E R V A T I O N S Y DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PROSTATE	NOT SPECIFIED(MILD) FOCAL(TRACE)
TESTES	(PRESENT)
PANCREAS	HULTI-FOCAL(TRACE) FOCAL(TRACE)
SKIN	THE SUBCUTAMEOUS MASS IN THE RIGHT THORACIC REGION IS A FIBRONA Probably of Mammary Origin. (Present)
MAMMARY GLANDS	. TISSUE IS MISSING NO MAMMARY TISSUE PRESENT. THE FIBROMA LISTED UNDER SKIN IS PROBABLY OF MAMMARY ORIGIN.
MOSE/TURBINATES	INFILTRATE INVOLVES MASO-LACRIMAL DUCTS. Not specified(trace)
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESERT)
EYES & OPTIC N	THE LENS OF ONE EYE WAS LOST IN PROCESSING. NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)

P I C T I S S U E O B S E R V A T I O N S >> ES STUDT WEEK OF DEATH: 107 ES SEVERITY GROSS FREE TEXT COMM (ES) PRESENT BILATERAL, MULTIPLE (PRESENT)	LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PAIN SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUA Data report GLP83009
METOPATHOLOGIC FINDINGS METOPATES METOPATES METOPATH	PRETEST 191 SEX: MALE STUDY DAY OF DEATH: 745	IFICE STATUS: FINAL SACRIFICE TERMINAL BODY WEIGHT:
ALTOPATHOLOGIC FIDDINGS ALTOPATHOLOGIC FIDDINGS CLANDS APOLLICULAR CELL ADENONA MISTOPATHOLOGIC FIDDINGS CLANDS APOLLICULAR CELL ADENONA MYOPATHY MYOPATHY MYOPATHY SSIVE REMAL DISEASE C PICT S S U E O B S E N V A TI O N S PECIAL COMMENTS (PRESENT) / SPECIAL COMMENTS (PRESENT) / SPECIAL COMMENTS MOT SPECIFIED (MODERATE) MOT SPECIFIED (MACE)	C G R O S S O R G A N O B S E KEYWORDS / PHRASES SEV	T I O M S >> GROSS FREE-TEXT COMMENTS
HISTOPATHOLOGIC FINDINGS GLANDS GROWTH(S) / MASS(ES)	BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK	
GLANDS A-FOLLICULAR CELL ADENOMA OID WYOPATHY WYOPATHY CTEL EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS OCTELLULAR ALTERATION - CLEAR CELLS CYTE COALESCING MICROYESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION C PROSTATITIS HYPERPLASIA C PROSTATITIS HYPERPLASIA C INFLAMMATION		>> / SPECIAL COMMENTS
MYOPATHY WYOPATHY UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MIMERALIZATION SSIVE REMAL DISEASE C PROSIATITIS HYPERPLASIA C INFLAMMATION	CULAR CELL ADENOMA	(PRESENT)
HYOPATHY UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS OF CELLULAR ATTERATION - CLEAR CELLS CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE RENAL DISEASE C PROSTATITIS HYPERPLASIA C INFLAMMATION		. TISSUE IS MISSING
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS OF CELLULAR ALTERATION - CLEAR CELLS CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO 18 AND MINERALIZATION SSIVE RENAL DISEASE C PROSTATITIS HYPERPLASIA C INFLAMMATION	DIONYOPATHY	
SSIVE RENAL DISEASE C PROSTATITIS HYPERPLASIA ERSTITIAL CELL ADENOMA C INFLAMMATION	E DUCTULE EPITMELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS US OF CELLULAR ALTERATION - CLEAR CELLS ATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO ROSIS AND MIMERALIZATION	
C PROSTATITIS HYPERPLASIA ERSTITIAL CELL ADENOMA C INFLAMMATION FOCA	RESSIVE REMAL DISEASE	
ERSTITIAL CELL ADENOMA C INFLAMMATION	-CHRONIC PROSTATITIS -PERIGE HYPERPLASIA	
C INFLAMMATION	TERSTITIAL CELL ADENOMA	(PRESENT)
	C INFLAMMATION	

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL DATA
INDIVIDUAL ANIMAL DAT Study Mumber: Glp Study Start Date: 23-jam-64	PRINTED: 21-NOV-89 PAGE: 396 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
PRETEST 191 SEX: MALE DOSE GROUP: 3 STUDY JAY OF DEATH: 745 STUDY WEEK OF DEAT	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY VEIGHT: 428.00 (GMS)
C TISSUE / MISTOPATHOLOGIC FIRDINGS COPIC TISSUE OBSERVATIONS >>	SERVATIONS >> RIBUTION (SEVERITY) / SPECIAL COMMENTS
NOSE/TURBINATES	VENTRAL MASAL CAVITY.
ADRENAL	£
EYES & OPTIC M	

CELERATE FROM THE TRANSPORT OF THE PROPERTY OF THE TRANSPORT OF THE TRANSPORT OF THE STREET OF THE S	INDIVIDUAL ANIMAL DATA REPORT STUDY MIMBER: GI PARODO
STUDY START D EST 192 SEX: MALE	STUDY TYPE: CHRONIC/2 YR CL SACRIFICE STATUS: FINAL SACRIFICE
GROSS ORGAN OSS	T I O N S - VY GONNENTS GROSS FREE-TEXT COMMENTS
SKIN GROWTH(S) / MASS(ES) PRESENT TESTES ENLARGED PRESENT TESTES GROWTH(S) / MASS(ES) PRESENT	PAPILLARY, UPPER LIP, .2CM DIAMETER RIGHT, 2.5 x 1.5CM BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW
C N S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S VV DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
THYROID GLANDSPYERPLASIA ("C" CELL, LIGHT CELL)	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(TRACE)
LUMGS	NOT SPECIFIED(TRACE)
LIVER -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)

. J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCNER-344 SPECIES: RAT/FISCNER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
AHINAL MUNBER: 192/PRETEST= 192 SEX: MALE DOSE GROUP: 3 DATE OF DEATH: 745 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 432.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O S S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	NOT SPECIFIED(MILD)
SKIN	THIS SQUAMOUS PAPILLOMA WAS LOCATED ON THE UPPER LIP. (PRESENT)
HOSE/TURBINATES	INFILTRATE INVOLVES NASO-LACRIMAL DUCTS AND VENTRAL NASAL CAVITY NOT SPECIFIED(TRACE)
ADRENAL	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
EYES & OPTIC W	NOT SPECIFIED (PRESENT)

J (cont.): 1 STUDY START	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
193 SEX: MALE IF DEATH: 738	
A GROSS ORGAR OSK	COMM
STOMACH MODULE PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT CHANGE PRESENT TESTES GROWIN(S) / MASS(ES) PRESENT	.2CM DIAMETER, GRAY PALE, IRREGULAR, 1.5CM DIAMETER, FOCAL DARK RED, .5CM DIAMETER BILATERAL LEFT, ONE .25CM DIAMETER, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TRACKEA	FOCAL(TRACE)
LACRIMAL GLAND	NOT SPECIFIED(TRACE)
EXORBITAL LACRIM	. TISSUE IS MISSING RECUTS OF BLOCK #4 FAILED TO DEMONSTRATE EXORBITAL LACRIMAL GLAND.
HEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT)
KIDREYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MARKED)
PROSTATE	

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
IN STUDY START	DATA REPORT GLP83009
.	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 340.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
PROSTATE	NOT SPECIFIED (MODERATE)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT) NOT SPECIFIED (PRESENT)
STOMACH	NOT SPECIFIED (PRESENT)
TORGUE	TISSUE IS MISSING
MANMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE: SUPPURATIVE, BILATERAL, ADJACENT NASO-LACRINAL Ducts. Not specified(Moderate)
ADRENAL	NOT SPECIFIED (MARKED)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SERVER: SERVER: BATZEISCHER, 744	PATHOLOGY INDIVIDUAL ANIMAL DATA IVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 ATE: 23-AAM-A.
EST 194 SEX: MALE TUBY DAY OF DEATH: 745	SACRIFICE STATU DEATH: 107 TERMINA
C G R O S S O R G A M O B KEYUORDS / PHRASES	
MAMMARY GLAND PROMINENT PRESENT PITUITARY GLAND ENLARGED PRESENT	RIGHT CERVICAL REGION DARK RED, .4CM DIAMETER
C NISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL)	. NOT SPECIFIED(TRACE)
MEART	. NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH MODES	. RBC'S AND HEMOSIDERIN PRESENT IN CERVICAL MODES ONLY. Not specified (present)
LIVER	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED (MODERATE)
PROSTATE	NOT SPECIFIED(TRACE)
MAMMARY GLANDS	. MOT SPECIFIED(MILD)

	PRINTED: 21-NOV-89 PAGE: 402 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 425.00 (GMS)	OBSERVAL ORS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS		cts.			THERE IS NO HISTOLGIC EVIDENCE OF CONJUNCTIVITIS WHICH WAS NOTED GROSSLY. THE GROSS APPEARANCE MAY HAVE BEEN DUE TO HYPERSECRETION OF THE HARDERIAN GLAND WHICH CONTAINS AN ABUNDANCE OF SECRETORY PRODUCT IN THIS ANIMAL.
1	DY TYI	FINAL ODY VI	14L CC		AL DI			OF CC MAY H I GLAN
PATHOLOGY INDIVIDUAL ANIMAL DATA	STU	SACRIFICE STATUS: FINAL EATH: 107 TERMINAL BODY WE	SPEC					DENCE RANCE DERIAI
H		E STA	N S N	Ę	NASO-			APPEA
EDON	ORT	RIFIC 7	1 0 EVERI	PRESE	LVES ILD)			ROSS PER THE
DIV	A REP 63009	SAC #: 10	S) NO) 031	INVO IED (M	ACE)		1 H E G
X		DEAT	E R 18011	PECIF	TRATE Pecif	SECTR	Ę	IS NO LY. SECRE
X90°	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jam-64	DOSE GROUP: 3 STUDY WEEK OF	0 8 S 0 1 S T R	NOT SPECIFIED (PRESENT)	INFILTRATE INVOLVES Not specified(MILD)	DI FFUSE(TRACE)	(PRESENT)	THERE GROSS HYPER ABUND
rho1	DUAL UDY N	E GRO			:			
PA	ND 1 V I ST DATE	DOS STU	OPIC TISSUE	TULES	uses,			
	or i	w	8					
J (cont.):	STUDY STA	194 SEX: MALE : DEATH: 745	-	:	NASAL CAVITY, SINUSES,			
Ö C O	Ś	194 SEX: MAI OF DEATH: 745	0		SAL C			
ט		5	0	CTULI				
li x	Z .	DAY	S		AT 1 0M			:
Appendix	RESEA	194/PRETEST= 8-86 STUDY	MICROSC FINDINGS	TS A	FILTR			
Ap		/PRE	2	, n	NAL D MAL D			
İ	LETTERMAN ARNY JESTITUTE OF RESEARCH DIV OF RES SUPP, PATE SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 194/PRETEST= Date of Death: 05-feb-86 Study Day	TISSUE / HISTOPATHOLOGIC FINDINGS	HAMMARY GLANDS	NOSE/TURBINATES	ADREMALLIPIDOSIS		
	P, PA 1SCNE	05-F	PATHO	ECTAS	MATOR MASO-			
,	ARNY S SUP RAT/F	ANIMAL NUMBER: DATE OF DEATH:	#ISTO	LAKDS ION (INATE NFLAM TES, 1	: <u>s</u>	PITUITARY GLAND -8- ADENONA	EYES & OPTIC M.
	ERMAN OF RE	10 0.0	H /	ATAT	TURE ED 11	DRENAL	ITUITARY GL -8- ADENOMA	4
	DIV C	ANIMA	11 SS 11	HAMMA - DIL	MOSE/ -MIX TUR	ADREN - LIP	P11UI -8-	F # 6

LETTERMAN ARMY INSTITUTE OF RESEARCH STUDY NUMBER: STUDY NUMBER:	INDIVIDUAL AND BATA REPORT GLP83009
STUDY START D EST= 195 SEX: MALE TUDY DAY OF DEATH: 745	STUDY ITPE: CHKONIC/2 TR CARCINUGENIC DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 412.00 (GMS)
C G R O S S O R G A N O B C KEYWORDS / PHRASES	GROSS FREE-TEXT
TESTES GROWTH(S) / MASS(ES) PRESENT	RIGHT, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	TISSUE IS MISSING
SALIVARY GLAND	THE ATROPHY PRIMARILY INVOLVES ONE LOBULE OF THE PAROTID GLAND. THE ACINAR TISSUE IN THIS LOBULE IS ALMOST COMPLETELY REPLACED BY FIBROUS CONNECTIVE TISSUE. MILDER ATROPHIC CHANGES ARE PRESENT IN SEVERAL ADJACENT LOBULES. THE SUBMANDIBULAR AND SUBLINGUAL GLANDS ARE NORMAL.
-ATROPHY AND LOSS OF ACINAR TISSUE	NOT SPECIFIED(MILD)
HEARTCARDIONYOPATHY	NOT SPECIFIED(TRACE)
LIVERBILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED(MILD)
FINDREYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
-INTERSTITIAL CELL HYPERPLASIA -B- INTERSTITIAL CELL ADENOMA	THE RIGHT TESTIS CONTAINS THE INTERSTITIAL CELL ADENOMA. THERE ARE MULTIFOCAL AREAS OF INTERSTITIAL CELL HYPERPLASIA IN THE LEFT TESTIS. MULTI-FOCAL(TRACE)
MAMMARY GLANDS	HOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

. J (cont.):	JAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL NUMBER: 195/PRETEST= 195 SEX: MALE DOSI DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745 STU	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE Study Week of Death: 107 terminal body weight: 412.00 (GMS)
TISSUE / WISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MOSE/TURBINATES	
ADREMAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)

ME	PRETESTA	
GROWTH(S) / MASS(ES) RISTOPATHOLOGIC FINDINGS WYOPATHY	STUDY DAY OF DEATH: 745 STUDY WE GROSS ORGAN OBSERVA	TERMINAL BODY WEIGHT:
MYDPATHY WYDPATHY WYDPAT	GROWTH(S) / MASS(ES) PRESENT	ATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
WYOPATHY WCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS CYTIC VACUOLIZATION DEGENERATION CYTE COALESCING HICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE REMAL DISEASE C PROSTATITIS HYPERPLASIA VESICLE LIZED ATROPHY (EXCENNE) ATROPHY	A HISTOPATHOLOGIC FINDINGS	
UCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS CYTIC VACUOLIZATION DEGENERATION CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE RENAL DISEASE C PROSTATITIS HYPERPLASIA VESICLE LIZED ATROPHY (EXSTITIAL CELL ADENONA (EXSTITIAL CELL ADENONA)		: SPECIFIED(TRACE)
C PROSTATITIS C PROSTATITIS HYPERPLASIA VESICLE LIZED ATROPHY (EXSCRINE) ATROPHY	ND/OR CHOLANGIOFIBROSIS (FATTY) CHANGE LEADING TO	
C PROSTATITIS HYPERPLASIA VESICLE LIZED ATROPHY (PRESENT) (EXCENSE) ATROPHY (CONTINE) ATROPHY (CONTINE) ATROPHY		SPECIFIED (MODERATE)
LIZED ATROPHY LIZED ATROPHY ERSTITIAL CELL ADENOMA (EXOCRIME) ATROPHY MULTI-FOCAL(MO		
ERSTITIAL CELL ADENOMA (EXOCRINE) ATROPHY		SPECIFIED
(EXOCRINE) ATROPHY		SENT)
		TI-FOCAL (MODERATE)

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344 SPECIES: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
196 SEX: MA F DEATH: 745	6 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEIGHT: 430.00 (GMS)
2 4 0	T S S U E O B S E R V A T 1 O N S >> I S S U E O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	MOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

	SLOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT NUMBER: GLP83009 -JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ALE S	P: 3 SACRIFICE STATUS: FINAL SACRIF K OF DEATH: 107 TERMINAL BODY WEIGHT:
C G R O S S O R G A N O S KEYWORDS / PMRASES	I O N S >> ROSS FREE-TEXT
TESTES ATROPHIC / SMALL, UNICATERALLY PRESENT TESTES GROUTH(S) / MASS(ES) PRESENT	LEFT, 1.5 X 1CM RIGHT, MULTIPLE VARIABLY SIZED, YELLOW
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH NODES	NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED(MODERATE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
TESTES	NOT SPECIFIED(MARKED) (PRESENT)

DATA	PRINTED: 21-NOV-89 PAGE: 408 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	EX: MALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE H: 745 STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 364.00 (GMS)	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	oucrs.
MAL	T YOU	FINA	CIAL	I HAL I
ANI	29	TATUS	, spe	0-LACA
PATHOLOGY INDIVIDUAL ANIMAL DATA	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp33009 T Date: 23-jan-84	DOSE GROUP: 3 SACRIFICE STATUS; FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	NASAL CAVITY, SINUSES, NOT SPECIFIED(TRACE)
HOLOGY	INDIVIDUAL ANIMAL DATA REPC STUDY AUMBER: GLP83009 STUDY START DATE: 23-JAM-84	GROUP: 3 Y WEEK OF D	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NOT SPE
	INDIVID STU	DOSE		SI NUSES,
	DY ST	MALE '45	-	177,
(cont.):	uts .	197 SEX: MALE F DEATH: 745		NASAL CAVITY, SINUSES,
?				2
Appendix	OF RESEARCH	PRETEST STUDY DAY	A M I C R O S C O OGIC FINDINGS	INFILTRATIO
	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 197/PRETEST= DATE OF DEATH: 05-FEB-86 STUDY DAY OF	TISSUE / MISTOPATMOLOGIC FINDINGS	NOSE/TURBINATES

NOT SPECIFIED (PRESENT)

LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-1AN-84	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-1AM-84
ANIMAL NUMBER: 198, DATE OF DEATH: 16-JAN-86	PRETEST= 198 SE STUDY DAY OF DEATH		SACRIFICE STATU DEATH: 104 TERMINA
ORGAN NAME	ORGAN NAME KEYVORDS / PHRASES	B S E R V A SEVERITY	T 1 0 N S >> GROSS FREE-TEXT COMMENTS
SPLEEN TESTES	ENLARGED (SPLENOMEGALY) ATROPHIC / SMALL, UNILATERALLY FMIARGED	MARKED PRESENT	11 X 3.2 X 1.5CM LEFT X Y 9CM
TESTES	GROWTH(S) / MASS(ES) ENLARGED, UNITATERALLY	PRESENT	BILLIERL, MULTIPLE VARIABLY SIZED, RED/WHITE/BLACK Biltter, 1 x 4cm
LUNGS	NO.	PRESENT	FOCAL, BLACK, .1CM DIAMETER, RIGHT LOBE FOCAL, RAISED, YELLOW, .23CM DIAMETER, NUMBERING 6-7
TISSUE / HISTOPA	<pre></pre>	S S C E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	OHYOPATHY		NOT SPECIFIED(MILD)
-PNEUMORIA, INT. -PERIVASCULAR L' -R- LARGE GRANU	UNGSPRERSTITIAL, CHRONIC -PRENVASCULAR LYMPHOID AGGREGATIONS (CUFFING) -W- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC		FOCAL(TRACE) Multi-Focal (present) (present)
THYNUS	HYMUS)	(PRESENT)
SPLEEN	PLEEN)	(PRESENT)
LYMPH NODES	YMPH NODES	· · · · · · · · · · · · · · · · · · ·	(PRESENT)
LIVERBILE DUCTULE EI-BENIGN HYPERPL	IVER	:	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)

Appendix J (cont.): PATHOLOGY	INDIVIDUAL ANIMAL DATA
INDIVIDU Study Start Date:	DATA REPORT GLP83009
ANIMAL NUMBER: 198/PRETEST= 198 SEX: MALE DOSE GROUP: DATE OF DEATH: 16-JAN-86 STUDY DAY OF DEATH: 725 STUDY WEEK	3 SACRIFICE S OF DEATH: 104 TER
- C	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT)
KIDNEYprogressive Remai Disease	NOT SPECIFIED(MILD)
PROSTATE	NOT SPECIFIED (MODERATE)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
ILEUM	(PRESENT)
BOME, STERMUM	NOT SPECIFIED (PRESENT)
	NOT SPECIFIED (PRESENT)
BOME VERT	NOT SPECIFIED (PRESENT)
ADREMAL	ONLY ONE ADRENAL AVAILABLE FOR EXAMINATION
PITUITARY GLAND	TISSUE IS MISSING
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	

ANIMAL DATA
INDIVIDUAL
PATHOLOGY
(cont.):
ppendix J

PRINTED: 21-NOV-89 PAGE: 411	198 SEX: MALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND OF DEATH: 725 STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 406.00 (GMS)	21213
	SACRIFICE STATUS: SACRIFICED MORIBUND: 104 TERMINAL BODY WEIGHT: 406.	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009	SACRIFI OF DEATH: 104	O B S E R V A T I O N S V V DISTRIBUTION (SEVERITY) / SPE
•	E DOSE GROUP: 3 STUDY WEEK OF DE	3 n s s 1
•	: 6:	M I C R O S C O P I C T I S S U E OGIC FINDINGS
TUTE OF RESEARCH H SERV GP	198/PRETEST= N-86 STUDY DA	A M C R O S OGIC FINDINGS
LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP CREFIEC. BAT FICCHES 14.4	ANIMAL NUMBER: 198/PRETEST= DATE OF DEATH: 16-JAN-86 STUDY DAY	TISSUE / HISTOPATHOLOGIC FIRDINGS

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
1MD STUDY START D	DATA REPORT GLP83009
199 SEX: MALE DEATH: 702	SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 101 TERMINAL BODY WEIGHT: 412.00 (GMS)
PARASES OS SE SE SE SE SE SE SE SE SE SE SE SE SE	GROSS FREE-TEXT COMMENTS GROSS FREE-TEXT COMMENTS LEFT FOCAL, YELLOW .3 X .5CM CORTEX, MULTIPLE, MINUTE, WHITE
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TNYROID GLANDS	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD)
LUMGS PULMOMARY ARTERIES	NOT SPECIFIED(TRACE)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
KIDNEY PROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(MILD)
SEMINAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	

CH STUDY STAR	DATA REPORT GLP83009 STUDY 1
RETEST 199 SEX: MALE STUDY DAY OF DEATH: 702	DEAT
CROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TESTES	(PRESENT) Not Specified (Present)
PAHCREAS	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE ADJACENT WASO-LACRIMAL DUCT. NOT SPECIFIED(TRACE)
ADREWAL	NOT SPECIFIED(MILD) (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)

	INDIVIDU DATA REPORT GLP83009
200 SEX: MALE DEATH: 745	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 362.00 (GMS)
*	LT LONS >> GROSS FREE-TEXT COMMENTS
TESTES GROUTH(S) / MASS(ES) PRESENT PILITARY GLAND ENLARGED PRESENT PROMINENT PRESENT	LEFT, MULTIPLE VARIABLY SIZED, YELLOW DARK RED, .SCM DIAMETER AXILLARY AND INGUINAL REGIONS, BILATERAL
C NICROSCOPIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED (MODERATE)
LIVERBILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC	NOT SPECIFIED(MODERATE) MOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MODERATE)
PROSTATE	NOT SPECIFIED(TRACE)
TESTES	(PRESENT)
PANCREAS	FOCAL(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(MILD)
NOSE/TURBINATES	

Appendix J (c	J (cont.): PATHOI	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	×	_ 9
ANIMAL NUMBER: 200/PRETEST= 200 S DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEAT	200 SEX: MALE DOSE GROUP: 3 DF DEATH: 745 STUDY WEEK OF	SACRIFICE STATUS: FINAL SACRIFIC DEATH: 107 TERMINAL BODY WEIGHT:
<pre>4< M I C R O S C O P I TISSUE / MISTOPATHOLOGIC FINDINGS</pre>	0 P 1 C T 1 S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MOSE/TURBINATES	MASAL CAVITY, SINUSES,	NOT SPECIFIED(MILD)
ADRENAL	TED	NOT SPECIFIED(MILD)
PITUITARY GLAND)	(PRESENT)

Apperdix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
TE OF RESEARCH INDI SERV GP START DA	DATA REPORT GLP83009 STUDY TYPE: CHRONIC
201 SEX: MALE DEATH: 745	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 315.00 (GMS)
ORGAN NAME CETOSS ORGAN OBSERVA ORGAN NAME RETURNS / PURASES TESTES GROWIN(S) / MASS(ES) PRESENT	T 1 O M S >> GROSS FREE-TEXT COMMENTS BILATERAL, MULTIPLE VARIALBLY SIZED, YELLOW/BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(MILD)
LYMPH MODES	RBC'S AND HEMOSIDERIN PRESENT IN MEDIASTINAL NODES ONLY. Not specified (present)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
KIDNEY	NOT SPECIFIED (MARKED)
PROSTATE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
SEMIMAL VESICLE	NOT SPECIFIED (PRESENT)
TESTES	(PRESENT)
PANCREAS	

Appendix J (cont.): PATE	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	DATA REPORT GLP83009
201 SEX: MALE F DEATH: 745	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 315.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	NOT SPECIFIED(MILD)
NOSE/TURBINATES	
ADREWAL	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

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DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
cont.):
ppendix

LETTERAR ARY INSTITUTE OF RESEARCH	INDIVIDUAL ANIMAL DATA REDORT
	STUDY TYPE: CHRONI
ANIMAL NUMBER: 202/PRETEST= 202 SEX: MALE DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745	RIFIC 7
AME KEYLORDS / PHRASES	OBSERTY GROSS FREE-TEXT COMMENTS
	PRESENT PRESENT PRESENT MODERATE 6 X 1.5CM
	PRESENT BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	SSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	LL) FOCAL(TRACE)
HEART	MOT SPECIFIED(MILD) MOT SPECIFIED(TRACE)
LUNGS	(PRESENT)
-INFARCTION, CHRONIC -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -SMOOTH MUSCLE WYPERTROPHY, CAPSULE AND TRABECULAE	THE STRICTURE OBSERVED GROSSLY WAS DUE TO CHRONIC INFARCTION AND SUBSEQUENT FIBROSIS AND SMOOTH MUSCLE HYPERTROPHY. THESE CHANGES ARE PROBABLY SECONDARY TO THE LGLL. NOT SPECIFIED (MODERATE) (PRESENT) NOT SPECIFIED (PRESENT)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -CYSTIC DEGEMERATION -HEPATOCYTIC DEGEMERATIVE CHANGES (NON-WECROTIC) -NECROSIS, PERIACINAR -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	FIBROSIS NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT) DIFFUSE(MODERATE) MULTI-FOCAL(TRACE) (PRESENT)

	Appendix	J (cont.):	PATHOLOGY	INDIVIDUAL	ANIMAL D	DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH	STUDY STAR		DATA REPORT GLP83009		PRINTED: 21-NOV-89 PAGE: 419 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: - 202/PRETEST# DATE OF DEATH: 05-FEB-86 STUDY DAY	•	202 SEX, MALE OF DEATH: 745	:	SACR DEATH: 107	IFICE STATUS: FINAL SACRI	353.00 (GMS)
C M I C M I C M I C M I C M I C M I C M I C M I C M I C M I C M I I M I M	A	0 P 1 C T 1 S		E R V A T BUTION (SE	/ SPECIAL CO	HHERTS
FIDNEYPROGRESSIVE RENAL DISEASE	ASE		NOT	NOT SPECIFIED (MODERATE)		
PROSTATE			NOT	SPECIFIED(MILD) Specified(Trace)		
SEMINAL VESICLE			•	NOT SPECIFIED (PRESENT)		
TESTES	DENOMA		(PRESENT)	ENT)		
PANCREAS)		DIFFUSE(DIFFUSE(MARKED) Present)		
MAMMARY GLANDS	ERTROPHY OF THE	E ACIMAR TISSUE CTULES	TON	SPECIFIED(MILD) SPECIFIED (PRESENT)		
MOSE/TURBINATES	L INFILTRATION Mal Ducts	, NASAL CAVITY, SINUSES,		INFILTRATE INVOLVES NASO-LACRIMAL DUCT Not specified(moderate)	D-LACRIMAL DU	.1.
BONE, STERNUM	EROSIS		TOM	SPECIFIED (PRESENT)		
BONE, FEMUR	EROSIS			NOT SPECIFIED (PRESENT)		
BONE VERT	EROSIS		LOR	NOT SPECIFIED (PRESENT)		
ADREMAL			•			

TAR	DATA GLP83
202 SEX: MALE OF DEATH: 745	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 353,00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ADREMAL	NOT SPECIFIED(MODERATE) (PRESENT)
PITUITARY GLAND	(PRESENT)
WMOLE BODYTYPNOCYTIC LEUKENIA	

BER: 203/PRETEST 203 SEX: MALE DOSE GROUP: 3 ATH: 05-FEB-86 STUDY DAY OF DEATH: 745 STUDY WEEK OF DEATH: < GROSS ORGAN OBSERVATIONS	SACRIFICE STATUS: FINAL SACRIFICE THE 107 TERMINAL RODY UFICHT: "XX DD CEME"
# S S S S S S S S S S S S S S S S S S S	
KEYLORDS / PHRASES	T I O N S >> GROSS FREE-TEXT COMMENTS
TESTES ATROPHIC / SMALL, UNILATERALLY PRESENT RIGHT, 1 X .75CM TESTES GROWTH(S) / MASS(ES)	RIGHT, 1 X .75CM LEFT, MULTIPLE VARIABLY SIZED, YELLOW/BLACK
TISSUE / MISTOPATHOLOGIC FINDINGS	T I O N S >> SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) NOT SPECIFIED(TRACE)	(RACE)
EART	'RACE)
IVER	(RACE)
KIDNEY NOT SPECIFIED(MODERATE)	IODERATE)
PROSTATE	RACE)
TESTES THE SMALL (RIGHT) TESTI -TUBULAR ATROPHY -B - INTERSTITIAL CELL ADENOMA -PERIARTERITIS MODOSA NOT SPECIFIED (PRESENT)	THE SMALL (RIGHT) TESTIS HAS NO INTERSTITIAL CELL TUMOR. THE MARKED TUBULAR ATROPHY AND PERIARTERITIS INVOLVES THIS TESTIS. NOT SPECIFIED(MARKED) PRESENT) NOT SPECIFIED (PRESENT)

ARMY INSTITUTE OF RESEARCH Supp, path serv GP At/Fischer-344	DATA REPORT GLP83009
ANIMAL NUMBER: 203/PRETEST= 203 SEX: MALE DOSE GROUP: 3 DATE OF DEATH: 05-FEB-86 STUDY DAY OF DEATH: 745 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 368.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
CECUM TISSUE IS AUTOLYTIC	TISSUE IS AUTOLYTIC
MAMMARY GLANDS	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE ADJACENT NASO-LACRIMAL DUCT. Not specified(MILD)
ADRENAL	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
MEDIASTINUM MISCELLANEOUS TISSUE -REACTIVE HYPERPLASIA, LYMPH NODE	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

LETTERNAM ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAI/FISCHER-344	LETTERMAN ARNY INSTITUTE OF RESEARCH BIV OF RES SUPP, PATM SERV GP SPECIES: RAI/FISCHER-344	STUDY STAR	INDIVIDUAL ANIMAL STUDY NUMBER:	REPORT 3009	MAL DATA PRINTED: 21-NOV-89 PAGE: 423 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 204/ DATE OF DEATH: 05-FEB-86	ANIMAL NUMBER: 204/PRETEST= DATE OF DEATH: 05-FEB-86 STUDY DAY	204 SEX: MALE DEATH: 745	DOSE GROUP: 3 STUDY WEEK OF	SACRIFICE DEATH: 107 TE	STATUS: FINAL SACRIFICE RMINAL BODY WEIGHT: 404.00 (GMS)
ORGAN NAME	ORGAN NAME <	DERANES A NO BO	: < _	R V A I I O N S >> RITY GROSS FREE-TEXT COMMENTS	
TESTES	GROWTH(S) / MASS(ES)	/ MASS(ES)	PRESENT	BILATERAL, MULTIPLE VARIABLY SIZED, YELLOW	ZED, YELLOW
TISSUE / MISTOPATHOLOG	M 1 C R O	S C O D C - 1 S	ш Э	OBSERVATIONS >>	>> SPECIAL COMMENTS
HEARTCARDIOMYOPATI	EART	NERIES		NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)	
-MIMERALIZATION OF PU-PERIVASCULAR LYMPHOI-ALVEOLAR HEMORRHAGE	UNGS	RIES IS (CUFFING)		NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	
SPLEEN	PLEEN	(4:	2 : : : :	NOT SPECIFIED (PRESENT)	
-BILE DUCTULE -NEPATOCYTE CC	-BILE DUCTULE EPITHELIAL HYPERPLASIA A -WEPATOCYTE COALESCING MICROVESICULAR WECROSIS AND MINERALIZATION	IND/OR CHOLANGIOF (FATTY) CHANGE L	: 01	NOT SPECIFIED(MODERATE) Multi-focal(Trace)	
KIDNEY	IDNEYPROGRESSIVE REWAL DISEASE		:	NOT SPECIFIED(MILD)	
PROSTATE	PROSTATITIS IYPERPLASIA		•	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)	
SEMINAL VESICLE	EMINAL VESICLE			MOT SPECIFIED (PRESENT)	

Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA	L DATA
INI STUDY START (DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 424 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
RETEST** 204 SEX: MALE STUDY DAY OF DEATH: 745	ROUP: 3 SACRIFICE STATU WEEK OF DEATH: 107 TERMINA	INAL SACRIFICE DY WEIGHT: 404.00 (GMS)
0 1 0	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	AL COMMENTS
TESTES	(PRESENT)	
ADREMAL	NOT SPECIFIED (TRACE)	
PITUITARY GLAND	(PRESENT)	
EYES & OPTIC W	NOT SPECIFIED (PRESENT)	

LETTERMAN ARNY INSTITUTE DIV OF RES SUPP, PATH SEI SPECIES: RAT/FISCHER-344	Appendly Letterman army institute of research DIV OF RES SUPP, Patm Serv GP SPECIES: Rat/Fischer-344	ğ T	SINC.): PATROLOGY INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84			P	21-NOV-89 139 1CINOGENI
ANIMAL NUMBER: 218/P	ANIMAL NUMBER: 218/PRETEST= DATE OF DEATH: 07-FE8-86 STUBY DAY	218 SEX: FEMALE OF DEATH: 747	:	UP: 1 SEEK OF DEATH:	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	HAL SACRIFICE T WEIGHT: 259.00 (GMS)	(8)
ORGAN NAME	RGAN NAME C P O S S O R KEYLORDS / PHRASES	ORGAN OB	S E R V A SEVERITY	T I O N S VV GROSS FREE-TEXT CONNENTS	S >> REE-TEXT COMMENTS	4	
LIVER	ADMESTON(S)		1	DIAPHRAGM, VE	DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES	., INTESTINES.	
TISSUE / MISTO	TISSUE / MISTOPATHOLOGIC FINDINGS	0 1 1 0 0 0	s u e	OBSERVA DISTRIBUTION	OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	COMMENTS	
THYROID GLANDS -8- PARA-FOLL	MYROID GLANDS		: : : :	(PRESENT)			
HEART	EARTCRDIOHYOPATHY		:	NOT SPECIFIED(MILD)	(MILD)		
LUNGS	UNGS		:	NOT SPECIFIED(TRACE)	(TRACE)		•
SPLEENFIBROSIS CAP	PLEEN			FOCAL (TRACE)			
LYMPH NODES	YMPH MODES		:	REACTIVE HYPERPLASIA NO Not specified (present)	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present)	VICAL NODES.	
-COMPOUND RELATED INFLAMMA-BILE DUCTULE EPITHELIAL M-HEPATITIS -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MIC	TORY REACTI YPERPLASIA ROVESICULAR	ON AND/OR CHOLANGIOFIBROSIS (FATTY) CHANGE LEADING TO	: 0	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(MODERATE)	(PRESENT) (TRACE) RACE) RACE) ODERATE)		
KIDNEY	IDMETPROGRESSIVE RENAL DISEASE		:	NOT SPECIFIED(MILD)	(MILD)		

LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 218/PRETEST# 218 SEX: FEMALE DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 S	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 259.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
STOMACH	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	
BONE, FEMUR	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
DIAPHRAGM	

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
ppendix J

TITUTE OF RESEARCH ATH SERV GP ER-344 STUDY START DA	DATA REPORT GLP83009 STUDY TYPE:
EX: FEMALE D H: 666 S	TATUS MINAL
ORGAN NAME KEYWORDS / PHRASES SEVERITY SPLEM ENLARGED (SPLENOMEGALY) PRESENT PERITONEAL CAV. ADHESION(S)	SERVATIONS ->> SEVERITY GROSS FREE-TEXT COMMENTS MARKED 6.5 X 2 X 1.5CM PRESENT DIAPHRAGM, VENTRAL ABDOMINAL WALL PRESENT 10CM LOOP OF SMALL INTESTINE ADHERED TOGETHER 20CM FROM STOMACH.
TISSUE / NISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
- Cardionyopathy	NOT SPECIFIED(TRACE)
LUNGS OF PULMONARY ARTERIES -MIMERALIZATION OF PULMONARY ARTERIES -M- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(TRACE) (PRESENT)
SPLEEM	. (PRESENT)
LYMPN MODES	. (PRESENT)
LIVER	MOT SPECIFIED (PRESENT) MOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) (PRESENT)
TELENDAMENT	

otter ('oron') o esperado	THEOLOGI THEINTONE ANIMAL DATA
STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL NUMBER: 219/PRETEST= 219 SEX: FEMALE DOSE GROUP: DATE OF DEATH: 18-MOV-85 STUDY DAY OF DEATH: 666 STUDY WEEK O	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 259.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
JEJUNUM	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	DIFFUSE(SEVERE) Not specified (present)
FRES & OPTIC N	OCULAR LESIONS ARE ALL UNILATERAL. NOT SPECIFIED(MARKED) NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)
DIAPMRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESE	MISCELLANEOUS TISSUE Not specified (present)

		conc. /:			TUDGITATGUT	THE PROPERTY		€	
LETTERMAN ARMY INSTITUTE OF RESEARCH BOLV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	TUTE OF RESEARCH N SERV GP -344		I DA		TA REPOR P83009		DY TYPE:	PRINTED: PAGE: CHRONIC/2 YR C	PRINTED: 21-NOV-89 PAGE: 443 Study Type: Chronic/2 yr Carcinogenic
ANIMAL NUMBER: 220/PRETEST= DATE OF DEATH: 14-JUN-85 STUDY DAY	PRETEST- STUDY DAY	220 SEX: FEMALE OF DEATH: 509	:	. – –	SACRIF ATH: 73	: 2≦	S: SACRIFICED	D MORIBUND T: 301.0	RIBUND 301.00 (GMS)
ORGAN WANE		**************************************	OBSERVA SEVERITY	T I O	T I O N S >> GROSS FREE-TEXT COMMENTS	:	! ! ! ! ! ! ! ! ! ! ! ! ! ! !	•	
EYES & OPTIC N. DUODENUM	OCCULAR DISCHARGE ADMERED TO LIVER GROWTH(S) / MASS(ES)	rgE :8 :8(ES)	PRESENT PRESENT PRESENT	ALSO ADHERED TO FIRM, WHITE, 33 THORACIC WALL.	DHERED TO RIGHT PE WHITE, 3CM DIAMETE IC WALL.	ALSO ADHERED TO RIGHT PERITONEAL WALL FIRM, WHITE, 3CM DIAMETER, INFILTRATING DIAPHRAGM AND THORACIC WALL.	AL WALL Iltrating	DIAPHRAGN	AND
TISSUE / NISTOPATHOLOGIC FINDINGS	COULT TO SO COULT	0 9 1 C T	SSCE	O B S E R V A DISTRIBUTION	CSEVE	:	>> SPECIAL COMMENTS	SLZ	
THYROID GLANDS	LL HYPERPLASIA ("C"	" CELL, LIGHT CELL)	פרר)	NOT SPEC	NOT SPECIFIED(TRACE)	E)			
-CARDIOMYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTER	OF MUSCULAR ARTERI	S		NOT SPECI	SPECIFIED (TRACE) SPECIFIED (TRACE)	· G G			٠
LYMPH NODES		ERYTHROPHAGOCYTOSIS WITHIN	OSIS WITHIN		S AND PIGMENT PRESE Specified (present)	RBC'S AND PIGMENT PRESENȚ IN CERVICAL AND MEDIASTINAL NODES. Not specified (present)	ERVICAL AI	ND MEDIASTI	NAL MODES.
	NFLAMMATORY REACTION ALTERATION - BASOPH ASTATIC SARCOMA	DN		NOT SPECI MULTI-FOC NOT SPECI SECONDARY	NOT SPECIFIED (PRESE MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) SECONDARY NEOPLASM F	NOT SPECIFIED (PRESENT) HULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY	(BDOMINAL	CAVITY	
FIDNEYPROGRESSIVE RENAL DISEASE	DISEASE			NOT SPECI	SPECIFIED(MILD)				
DUODENUM	NFLAMMATORY REACTIO	2		NOT SPECI	NOT SPECIFIED (PRESENT)	SENT)			

STUDY STAR	DATA REPORT GLP83009
ANIMAL NUMBER: 220/PRETEST= 220 SEX. FEMALE DOSE GROUP: 1 DATE OF DEATH: 14-JUN-85 STUDY DAY OF DEATH: 509 STUDY WEEK OF	DEATH:
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERLY) / SPECIAL COMMENTS
PANCREAS	FOCAL (MILD)
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO LACRIMAL DUCT. Not specified(moderate)
EYES & OPTIC N	NOT SFECIFIED (PRESENT)
ABDOMINAL SAUTY	MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. TUMOR CELL THE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. TUMOR CELL DIFFERENTIATION AND ARRANGEMENT IN MOST AREAS CONCISTING OF WELL DIFFERENTIATED CARTILAGENOUS MATRIX AND CHONDROCYTES. In ALL AREAS, THERE IS A GREAT AMOUNT OF MITOTIC ACTIVITY IND MARY OF THE MITOTIC FIGURES ARE LARGE AND BIZARRE.
DIAPHRAGM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN NOT SPECIFIED (PRESENT)

STORY HOSTITUTE OF RESEARCH INDIVIDUAL ANHMAL DATA REPORT STORY MUSBER GLP53009	STUDY START DATE: 23-JAN-64 STUDY START DATE: 23-JAN-64 STUDY START DATE: 23-JAN-64 STUDY START DATE: 23-JAN-64 STUDY MASS STATU START DATE: 23-JAN-64 STUDY MEEK OF DEATH: 80 TERMINA SS OR S E N A TION S >> DISCHARGE PRESENT CENTER OF LEFT HORN HILAGE (18)/MASS (5) SEVERITY GROSS FRE-TRY COMMENTS PRESENT CENTER OF LOBE TO DIAPHR (18)/MASS (5) PRESENT CENTER LOBE TO DIAPHR (18)/MASS (5) PRESENT CENTER OF LOBE TO DIAPHR (18)/MASS (5) PRESENT LEFT LATERAL LOBE TO DIAPHR (18)/MASS (5) PRESENT RIGHT LOBE, FIRM, WHITE, 2 ORATION PRESENT RIGHT LOBE, FIRM, WHITE, 2 ORATION PRESENT RIGHT LOBE, FIRM, WHITE, 2 ORATION ASIA ("C" CELL, LIGHT CELL) NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT) A FEN ROLL MEEKENT) A FEN ROLL MEEKENT) NOT SPECIFIED (PRESENT) A FEN ROLL MEEKENT) A FEN ROLL MEEKENT) A FEN ROLL MEEKENT) NOT SPECIFIED (PRESENT) A FEN ROLL MEEKENT) A FEN ROLL MEEKENT) A FEN ROLL MEEKENT) A FEN ROLL MEEKENT MEEKEN	Appendix J (cont.): PAT	Pathology individual animal data
Column	RESTRICTED STATE	ESEARCH STUDY STAR	DATA REPORT GLP83009
KEYORDS / PHRASES SEVERITY GROSS FREE-TEXT COMMENTS MUCOID DISCHARGE PRESENT CENTER OF LEFT HORN ENLANTS MUCOID DISCHARGE ROUTH(S)/MASS(S) PRESENT CENTER OF LEFT HORN ENLANTS ADMESION(S) PRESENT CENTER AND LOBULAR, 1.55 PRESENT MEDIAL LOBE, FIRM, WHITE, DISCOLORATION PRESENT MEDIAL LOBE, FIRM, WHITE, DISCOLORATION OISCOLORATION OISCOLORATION OISCOLORATION OISCOLORATION ACRIM ROPHY ROPHY PATHY KARIM ROPHY CEEL NYPERPLASIA ("C" CELL, LIGHT CELL) NOT SPECIFIED (TRACE) PATHY NOT SPECIFIED (TRACE) A FEW REACTIVE HYPERPLASIA AND A FEW REACTIVE HYPERPLASI	KETVORDS / PHRASES KETVORDS / PHRASES KETVORDS / PHRASES KETVORDS / PHRASES KETVORDS / PHRASES KETVORDS / PHRASES KETVORDS / PHRASES KETVORDS / PHRASES KET CANNENTS KET CANNENTS / LEFT HORN HALGE GROWTH(S)/MASS(S) PRESENT CENTER OF LEFT HORN CRITERAL LOBE (TO DIAL CANNENT) PRESENT LEFT LATERAL LOBE / FIRM AND LOBULAR, 1.55 PRESENT LEFT LATERAL LOBE / FIRM AND LOBE /	PRETEST 223 SEX: FEMALE STUDY DAY OF DEATH: 558	: E
MUCCID DISCLARGE RESENT CENTER OF LEFT HORN ENLAY 1.5 ADMESION(S) PRESENT CENTER OF LEFT HORN ENLAY 1.5 ADMESION(S) PRESENT CENTER OF LEFT HORN ENLAY RECOURTED DISCLARATION OISCOLORATION AC M I C R O S C O P I C T I S S U E O B S E R V A T I O N S STOPATHOLOGIC FINDINGS NOT SPECIFIED (TRACE) PATHY RODHY ACH I C R O S C O P I C T I S S U E O B S E R V A T I O N S BISTRIBUTION (SEVERTTY) ACRIM ROPHY RECELL HYPERPLASIA ("C" CELL, LIGHT CELL) NOT SPECIFIED (PRESENT) RECOLORATION NOT SPECIFIED (PRESENT) REACTIVE HYPERPLASIA AND A FEU NBC: S ARE NOTED AND A FEU NBC:	MUCGID DISCHARGE RESENT REST LORES, LIGH RESENT REST LORES, LIGH RESENT REST LORES, LIGH RESENT REST REST REST REST RESENT REST REST REST RESENT REST REST REST REST REST REST REST REST	CEROSSORGANOSSES SE	V A T I O N S >> TY GROSS FREE-TEXT COMMENTS
ADDERATE LEFT LATERAL LOBE TO DIAN PROMINENT LOBULAR HARKINGS HODERATE LEFT LATERAL LOBE TO DIAN DISCOLORATION PRESENT RIGHT LATERAL LOBE FRW, WHITE DISCOLORATION PRESENT RIGHT LATERAL LOBES, LIGHT LO	ADDERATE LEFT LATERAL LOBE TO DIAN AND LOBLAR, 1.55 PRESENT LEFT LATERAL LOBE TO DIAN AND LOBE TO DIAN AND LOBE TRANSCES) PRESENT RIGHT LATERAL LOBE GROUNN LOBE SELICITED TO BESCHAT REGIT LATERAL LOBE SELICITED TO BESCHAT REGIT LATERAL LOBE SELICITED TO BESCHAT REGIT LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LATERAL LOBES, LIGHT LOBES, LIGHT LOBES, LIGHT LATERAL LOBES, LIGHT LOBES, LIGHT LOBES, LIGHT LOBES, LIGHT LATERAL LOBES, LIGHT LOBES,	MUCOID DISCHARGE GROUTH(S)/MASS(S)	DARK RED, HEMORRHAGIC CENTER OF LEFT HORN ENLARGED 2.5 X 1.5CM, GRAY/BLACK.
PROMINENT LOBULAR MARKINGS MODERATE LEFT LATERAL LOBE GROUNT(S) / MASS(ES) PRESENT REGAT LOBES, LIGH DISCOLORATION PRESENT RIGHT LATERAL LOBES, LIGH DISCOLORATION PRESENT RIGHT LATERAL LOBES, LIGH DISCOLORATION PRESENT RIGHT LATERAL LOBES, LIGH ROWN MDS STOPATHOLOGIC FINDINGS ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) NOT SPECIFIED (TRACE) ACRIM ROPHY LLARY HEMATOPOIESIS NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES STUDSES MOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES STUDSES MOT SPECIFIED (PRESENT)	PROUTE LEFT LAFERAL LOBE PROUTH S)	ADHESION(S)	
DISCOLORATION PRESENT RIGHT LATERAL LOBES, LIGH DISCOLORATION ACM I C R O S C O P I C T I S S U E O B S E R V A T I O N S STOPATHOLOGIC FINDINGS ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) ROPHY ACRIM CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) A FEW REACTIVE HYPERPLASIA AND A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT)	DISCOLORATION PRESENT RIGHT LATERAL LOBES, LIGH DISCOLORATION PRESENT DIFFUSELY BROWN **A M I C R O S C O P I C T I S S U E O B S E R V A T I O N S **STOPATHOLOGIC FINDINGS** **ICULAR CELL MYPERPLASIA ("C" CELL, LIGHT CELL) **ACRIM** **A	PROMINENT LOBULAR MARKINGS Grouth(S) / Mass(ES)	
STOPATHOLOGIC FINDINGS STOPATHOLOGIC FINDINGS NDS DISTRIBUTION (SEVERITY) NDS CULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) NOT SPECIFIED (TRACE) ROPHY ROPHY CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT)	STOPATHOLOGIC FINDINGS STOPATHOLOGIC FINDINGS STOPATHOLOGIC FINDINGS NOT SPECIFIED (TRACE) ACRIM ROPHY LLARY HEMATOPOIESIS NOT SPECIFIED (PRESENT) REACTIVE HYPERPLASIA AND A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT)	DISCOLORATION	
ACRIM ACRIM	ICULAR CELL NYPERPLASIA ("C" CELL, LIGHT CELL) ACRIM ACRIM ROPHY LLARY HEMATOPOIESIS CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT)	0800010 11880	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL CONMENTS
ACRIM ROPHY LLARY HEMATOPOIESIS CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT)	ACRIM ROPHY PATHY LLARY HEMATOPOIESIS CEELS, NEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SIMUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SIMUSES NOT SPECIFIED (PRESENT) SIMUSES NOT SPECIFIED (PRESENT)	LAR CELL HYPERPLASIA ("C	NOT SPECIFIED(TRACE)
ACRIM ROPHY ACPHY LLARY HEMATOPOIESIS CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES HYPERPLASIA NOT SPECIFIED (PRESENT)	ACRIM ROPHY ROPHY LLARY HEMATOPOIESIS LLARY HEMATOPOIESIS CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT) A FEW RBC'S ARE NOTED IN SINUSES NOT SPECIFIED (PRESENT)		
LLARY HEMATOPOIESIS LLARY HEMATOPOIESIS NOT SPECIFIED (PRESENT) REACTIVE HYPERPLASIA AND A FEW RBC'S ARE NOTED IN CEELS, HEMOSIDERIM AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SIRUSES NOT SPECIFIED (PRESENT)	LLARY HEMATOPOIESIS LLARY HEMATOPOIESIS NOT SPECIFIED (PRESENT) REACTIVE HYPERPLASIA AND A FEU RBC'S ARE NOTED IN SIMUSES HYPERPLASIA NOT SPECIFIED (PRESENT)		
LLARY HEMATOPOIESIS LLARY HEMATOPOIESIS CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT)	LLARY HEMATOPOIESIS LLARY HEMATOPOIESIS A FEURBC'S ARE NOTED IN CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT)	DIONYOPATHY	:
CEELS, WEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT)	CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT SPECIFIED (PRESENT) SINUSES NOT SPECIFIED (PRESENT) NYPERPLASIA	AMEDULLARY HEMATOPOIESIS	NOT SPECIFIED (PRESENT)
		CEELS, HEMOSIDERIN AND/OR E	REACTIVE HYPERPLASIA AND A FEW RBC'S ARE NOTED IN NOT SPECIFIED (PRESENT)
		MEDULLARY SIMUSES -REACTIVE MYPERPLASIA	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
OF RESEARCH RV GP STUDY START	DIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAM-84
223 SEX: FEMALE IV OF DEATH: 558	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 80 TERMINAL BODY WEIGHT: 237.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NOT SPECIFIED(MODERATE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
UTERUSENDOMETRIAL STROMAL POLYP	NOT SPECIFIED (PRESENT)
NAMMARY GLANDS	NOT SPECIFIED(MILD)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
ABDOMINAL CAVITY	MISCELLAMEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY THE LIVER AND DIAPHRAGM. TUHOR CELL DIFFERENTIATION AND ARRANGEMENT ARE TYPICAL OF FIBROSARCOMA ALTHOUGH THERE ARE MIGHLY ANAPLASTIC CELLS IN SOME AREAS. [PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN NOT SPECIFIED (PRESENT)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATN SERV GP SPECIES: RAT/FISCNER-344	ESEARCH STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84 STUDY START DATE: 23-JAM-84
ANIMAL NUMBER: 224/PRETEST= DATE OF DEATH: 15-MAR-85 STUDY DAY	DAY OF	ATUS:
ORGAN WAME LIVER CAVITY GROUND ILEUM ADHE	ASES AN OBSIGES)	SERVATIONS >>> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT FIRM, WHITE, 5CM DIAMETER, EXTENDS THROUGH DIAPHRAGM, PLEURA, THORACIC WALL INTO SUBCUTANEOUS TISSUE ON LEFT SIDE. PRESENT MULTIPLE, FIRM, WHITE, DISTRIBUTED ON PLEURAL SURFACES AND MEDIASTINUM. PRESENT TO MASS 60CM FROM STOMACH.
TISSUE / MISTOPATHOLOGIC FINDINGS MEART	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS NOT SPECIFIED(TRACE)
LUNGS	SARCOMA	SECONDARY NEOPLASM FROM ORGAN ABDONINAL CAVITY
LYMPH MODES	SIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SARCOMA	METASTATIC SARCOMA, REACTIVE HYPERPLASIA, RBC'S AND PIGMENT ARE PRESENT IN MEDIASTINAL LYMPH MODES. REACTIVE HYPERPLASIA AND RBC'S ALSO NOTED IN MESENTERIC NODE. ITHIN NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDONINAL CAVITY
-COMPOUND RELATED INFLAMMATORY REACTION-MEPATOCYTIC VACUOLIZATION-MECROSIS	ORY REACTION	NOT SPECIFIED (PRESENT) DIFFUSE(MILD) FOCAL(MODERATE) SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY
PROGRESSIVE REMAL DISEASE		NOT SPECIFIED(TRACE)
OVARIES		

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	DATA REPORT GLP83009 STUDY T
224 SEX: FEMALE F DEATH: 418	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 60 TERMINAL BODY WEIGHT: 211.00 (GMS)
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
OVARIESFOLLICULAR CYST(S)	NOT SPECIFIED (PRESENT)
ILEUM PRESENCE OF METASTATIC SARCOMA	SECONDARY NEOPLASM FROM JRGAN ABDOMINAL CAVITY
MAMMARY GLANDS	NOT SPECIFIED (TRACE)
MOSE/TURBINATES	CELLULAR INFILTRATE ASSOCIATED WITH NASO-LACRIMAL DUCTS BILATERALLY. NOT SPECIFIED(MILD)
EVES & OPTIC N.	TISSUE IS MISSING NUMEROUS PROCESSING ARTIFACTS PRECLUDE DETAILED HISTOLOGIC EVALUATION OF THE EYES
THORAX	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDONINAL CAVITY
MEDIASTINUM -REACTIVE HYPERPLASIA, LYMPH MODEN- PRESENCE OF METASTATIC SARCOMA	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
ABDONINAL CAVITY MISCELLANEOUS TISSUE	MISCELLAMEOUS TISSUE

Appendix	'	J (cont.):	:-	PAT	HOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA	
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUD	I T START	NDIVIDI STUI DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84	STUDY	P TYPE: CHRONIC	PRINTED: 21-NOV-89 PAGE: 451 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 224/PRETEST= 224 SEX: FER DATE OF DEATH: 15-MAR-85 STUDY DAY OF DEATH: 418	224 DF DEA	224 SEX: FENALE F DEATH: 418	EMALE	DOSE	DOSE GROUP: 1 STUDY WEEK OF	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED M STUDY WEEK OF DEATH: 60 TERMINAL BODY WEIGHT:	STATUS: SACK	OR I	BUND 211.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	- 0		s - -	SCE	O B S DISTR	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> Y) / SPECIAL	COMMENTS	
ABDOMINAL CAVITY					THE STATE ST	THE SARCOMA IS PRIMARILY ASSOCIATED WITH LIVER AND DIAPHRAGM. IT EXTENDED THROUGH THE DIAPHRAGM TO INVOLVE MEDIASINUM, LUNITHROACIC WALL, AND IN THE ABDONEN IT INVADED THROUGH THE WALL THE SMALL INTESTINE. CELLULAR DIFFERENTIATION AND ARRANGEMENT RESEMBLES FIBROSARCOMA, AND IN FACT, ABUNDANT COLLAGEN IS BEILY PRODUCED BY NEOPLASTIC CELLS AS DEMONSTRATED IN SECTION STAIN WITH MASSON'S TRICHROME. THERE ARE NUMEROUS POORLY DIFFERENTIATED TO DEMONSTRATE CROSS-STRIATIONS IN THESE CELLS WITH THE PTAN STAINS WERE UNSUCCESSFUL.	HE DIAPHRAGM THE ABDOMEN CELLULAR DIFI A, AND IN FAC C CELLS AS DE CELLS IN SOME CHILS IN SOME CHILS IN SOME CHILS IN SOME CHILS IN SOME CONSTRATE CREATER	ED WITH LIVER TO INVOLVE M IT INVADED T FERENTIATION CT, ABUNDANT EMONTRATED IN EMONTR	THE SARCOMA IS PRIMARILY ASSOCIATED WITH LIVER AND DIAPHRAGM. IT EXTENDED THROUGH THE DIAPHRAGM TO INVOLVE MEDIASTINUM, LUNG, THROACIC WALL, AND IN THE ABDOMEN IT INVADED THROUGH THE WALL OF THE SMALL INTESTINE. CELLULAR DIFFERENTIATION AND ARRANGEMENT RESEMBLES FIBROSARCOMA, AND IN FACT, ABUNDANT COLLAGEN IS BEING PRODUCED BY MEOPLASTIC CELLS AS DEMONSTRATED IN SECTION STAINED WITH MASSON'S TRICHROME. THERE ARE NUMEROUS POORLY DIFFERENTIATED TUMOR CELLS. IN SOME ARRAS THAT RESEMBLE MUSCLE CELLS. ATTEMPTS TO DEMONSTRATE CROSS-STRIATIONS IN THESE CELLS WITH THE PTAM STAINS WERE UNSUCCESSFUL.
-M- SARCOMA, CELLULAR DIFFERENTIATION	UNSPE	UNSPECIFIED			(PRESENT)	£			
DIAPHRAGM			•		SECOND SPECIAL	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY NOT SPECÍFIED (PRESENT)	DH ORGAN ABDO	DMINAL CAVITY	

LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHRO
ANIMAL NUMBER: 225/ DATE OF DEATH: 03-FEB-86	PRETEST= STUDY DAY OF	FEMALE 743	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 229.00 (GMS)
ORGAN WANE	ORGAN WAME KEYNOROS / PHRASES	s a O	A T I O N GROSS F
SPIEER LIVER LIVER LIVER LYBER LYBER		MEGALY) MARKED PRESENT	KED 7 X 1.75CM ENT SMALL INTESTINES, STOMACH, VENTRAL ABDOMINAL WALL, DIAPHRAGM ENT ENT ENT ENT ENT ENT ENT ENT ENT ENT
UNOLE BODY UTERUS WHOLE BODY SKIN	FAT GENERALLY YELLOW GROWIN(S)/MASS(S) THIM WATERY BLOOD ABSCESS(ES)		
C M I C R I	CISSUE / HISTOPATHOLOGIC FINDINGS	nssıl o	E O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	ONYOPATHY		NOT SPECIFIED(TRACE)
SPLEEN	MPHOCYTE LEUKEMIA,	METASTATIC	NOT SPECIFIED(TRACE) (PRESENT)
LYMPN NODES	YMPN NODES	METASTATIC	(PRESENT)
-COMPOUND RELATED INFI- BILE DUCTULE EPITHEL- HEPATOCYTIC DEGENERA- MECROSIS, PERIACINAR- M- LARGE GRANULAR LY	LAMMATORY REACTION IAL HYPERPLASIA AN TIVE CHANGES (NON-	D/OR CHOLANGIOFIBROSI NECROTIC)	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) (PRESENT)
KIDNEY			

Appendix J (c. or RESEARCH RV GP	INDIVIDUAL AN
SPECIES: RAI/FISCHER-344 AMINAL NUMBER: 225/PRETEST# 225 SEX: FEMALE DOSE GROUP: 1 DATE OF DEATH: 03-FEB-86 STUDY DAY OF DEATH: 743 STUDY WEEK OF	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 229.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE REMAL DISEASE	. WOT SPECIFIED(MILD)
UTERUS SUBACUTE ENDOMETRITIS, SUBACUTE	DIFFUSE(MILD)
	. NOT SPECIFIED (PRESENT)
SKIN	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	. CELLULAR INFILTRATE INVOLVES NASO-LACRIAML DUCTS. Not specified(Mild)
BONE, STERNUM	NOT SPECIFIED (PRESENT)
BONE, FENUR	NOT SPECIFIED (PRESENT)
BONE VERT	NOT SPECIFIED (PRESENT)
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	

PPendlx J (Cont.): RESEARCH GP STUDY START D RETEST# 225 SEX: FEMALE	PATROLOGY INDIVIDU INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 DOSE GROUP: 1 SACRIF	PATHOLOGY INDIVIDUAL ANIMAL DATA 1VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 ATE: 23-JAN-84 DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICE MORIBUND
DATE OF DEATM: 03-FEB-86 STUDY DAY OF DEATM: 743 STUDY (CONTRACTOR) ST	E OBSER	STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 229.00 (GMS) U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PITUITARY GLAND	(PRESENT)	2
EYES & OPTIC N		WOT SPECIFIED(TRACE) WOT SPECIFIED (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	NOT SPI	MISCELLANEOUS TISSUE Not Specified (present)

LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH	STUD'S	INDIVIDUAL ANIMAL STUDY NUMBER: STUD' START DATE: 23-JAN-84	ں م		ROM I	PRINTED: 21-NOV-89 PAGE: 456 C/2 YR CARCINGENI
ANIMAL NUMBER: 227/ DATE OF DEATH: 07-FEB-86	PRETEST STUDY DAY	227 SEX: FEMALE OF DEATH: 747	• •	1 OF DEATH:	FICE STATUS TERMINAL	AL SACRIFICE WEIGHT: 275.00	275.00 (GNS)
ORGAN NAME	C R O S S KEYWORDS / PHRA	Z	OBSERVA SEVERITY	T 1 O N	S >> REE-TEXT COMMENTS		
LIVER KIDNEY KIDNEY KIDNEY KIDNERUS	ADMESION(S) GRANULAR SURFACE ENLARGED POLYP	. w	PRESENT PRESENT PRESENT PRESENT	DIAPHRAGM, ABDOMINAL WAL6CM DIAMETER, DARK RED. LEFT, INTRAUTERINE.	DIAPHRAGM, ABDOMINAL WALL, STOMACH .6CM DIAMETER, DARK RED. LEFT,INTRAUTERINE.		
TISSUE / HISTOPATHOLOGIC FINDINGS	ACLOGIC FINDINGS	0 P I C T	SSUE	O B S E R V A T I O N S DISTRIBUTION (SEVERITY)	\	>> SPECIAL COMMENTS	
THYROID GLANDS	MYROID GLANDS			(PRESENT)			
-CARDIONYOPATHY	OMYOPATHY			NOT SPECIFIED (TRACE)	TRACE)		
LYMPH NODES	YMPH MODES	•			REACTIVE HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES Not specified (present)	VICAL AND MEDIASTI	NAL NODES.
-COMPOUND RELATED INFLAMMA-BILE DUCTULE EPITHELIAL H-NEPATITIS -NEPATOCYTIC VACUOLIZATION-FIBROSIS CAPSULAR NO COMP-FOCUS OF CELLULAR ALTERAT	TORY REACTION TPERPLASIA A DUND CLEAR	ND/OR CHOLANGIOFIBROSIS	PF I BROS I S	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) FOCAL (PRESENT) FOCAL(MILD)	(PRESENT) HILD) LD) LD)		
KIDWEYPROGRESSIVE REMA	IDNEYPROGRESSIVE REMAL DISEASE		•	NOT SPECIFIED (MODERATE)	(ODERATE)		
UTERUSENDOMETRIAL STROMAL POLYP	MAL POLYP			NOT SPECIFIED (PRESENT)	(PRESENT)		

Appendix J (cont.): PATS LETTERMAN ARMY INSTITUTE OF RESEARCH	INDIVIDUAL ANIMAL DATA DATA REPORT
STUDY STAR	STUDY NUMBER: GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
RETEST 227 SEX: FEMALE STUDY DAY OF DEATH: 747	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 275.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
OVARIES	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED(MILD)
STOMACH	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES MASO-LACRIMAL DUCT. NOT SPECIFIED(HILD)
ADREMALFOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED(MILD)
PITUITARY GLAND	. (PRESENT)
EYES & OPTIC M	. WOT SPECIFIED(MODERATE) NOT SPECIFIED(MILD)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix Letterman army institute of research Div of res supp, path serv gp Species: Rat/Fischer-344	מ	(cont.): IN STUDY START	PATE DIVIDU STUD DATE:		INDIVIDUAL DATA REPORT GLP83009	ANIMAL STUDY T	INAL DATA PRINTED: 21-NOV-39 PAGE: 458 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	PRINTED: 21-MOV-39 PAGE: 458 IC/2 YR CARCINGENI	21-NOV- 39 158 RCINGENI
ANIMAL NUMBER: 228/PRETEST# DATE OF DEATH: 10-FEB-86 STUDY DAY	: 5	228 SEX: FEMALE OF DEATH: 750	:	: -	: =	CE STATUS: FINAL SACRIF TERMINAL BODY WEIGHT:	L SACRIFICE WEIGHT:	1CE 257.00 (GMS)	(\$
· • • • • • • • • • • • • • • • • • • •	O R ASES	O = X	SEVERITY		T I O M S >> GROSS FREE-TEXT COMMENTS				• • • • •
LIVER ADMESION(S) PITUITARY GLAND ENLARGED VAGINA ABCESS	(8)		PRESENT PRESENT PRESENT	DIAPHRAGN BLACK, .3	DIAPHRAGH, VENTRAL ABDOMINAL WALL, DUODENUM BLACK, .3CM DIANETER	TINAL WALL,	DUODENUM		
TISSUE / MISTOPATHOLOGIC FINDINGS	0 0 0 0 0	0	SSUE	OBSERV DISTRIBUTION	OBSERVATIONS DISTRIBUTION (SEVERITY)	/ SPECIAL COMMENTS	COMMENTS		
THYROID GLANDS				TISSUE IS MISSING	MISSING				
PARATHYROID				TISSUE IS MISSING	MISSING				
LACRIMAL GLAND				NOT SPECI	NOT SPECIFIED(TRACE)				,
EXORBITAL LACRIM				MULTI-FOCAL(M1LD)	AL(MILD)				
HEART				NOT SPECIU	NOT SPECIFIED(TRACE)				
LUNGSPULMONARY EDEMA				NOT SPECII	NOT SPECIFIED (MODERATE)		·		
- RED BLOOD CEELS, HENOSIDERIN AND/OR E	: ш	ERYTHROPHAGOCYTOSIS WITHIN	:	REACTIVE HISTIOCYT] NOT SPECII	REACTIVE HYPERPLASIA PRESENT HISTIOCYTIC INFILTRATION AND NOT SPECIFIED (PRESENT)		IN CERVICAL NODES. PIGMENT NOTED IN MEDIASTINAL NODES	S. I MEDIASTIN	AL MODES.
- MESTIOCYTIC INFILITATION, SUBCAPSULAR - REACTIVE HYPERPLASIA		AND MEDULLARY SINUSES		NOT SPECIFIED NOT SPECIFIED	FIED (PRESENT) FIED (PRESENT)				
LIVERCOMPOUND RELATED INFLAMMATORY REACTION	EACTION			NOT SPECIF	NOT SPECIFIED (PRESENT)				

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: CHRO
/PRETEST 228 SEX: FEMALE STUDY DAY OF DEATH: 750	SACRIFICE STATU
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	HOT SPECIFIED(TRACE) NULTI-FOCAL(TRACE) NULTI-FOCAL(MILD) NULTI-FOCAL(MILD) NOT SPECIFIED(MARKED)
KIDNEY	NOT SPECIFIED(TRACE)
DUODENUM	NOT SPECIFIED (PRESENT)
	A VAGINAL ABSCESS IS DESCRIBED GROSSLY. A THOROUGH SEARCH OF WET TISSUE REVEALED NO TISSUE SPECIMEN CORRESPONDING TO THIS LESION.
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCT. Not specified(mild)
ADRENAL	WOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EVES & OPTIC N	NOT SPECIFIED (PRESENT)

Appendix	'n	J (cont.):	::	PATE	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	UAL	ANIMAL	DATA		
LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUD	Y STAR	STUC STUC T DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-64	ATA LP83	þ	STUDY	TYPE: CHROI	REPORT PRINTED: 21-NOV-89 1009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 460 C/2 YR CARCINGENIC
ANIMAL NUMBER: 228/PRETEST= DATE OF DEATH: 10-FEB-86 STUDY DAY		228 SEX: FEMALE DEATH: 750	EMALE	DOSE STUDY	228 SEX: FEMALE DOSE GROUP: 1 F DEATH: 750 STUDY WEEK OF DEAT	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 257.00 (GMS)	FICE ST TERM	ATUS: FIN	SACRIFICE STATUS: FINAL SACRIFICE: 108 TERMINAL BODY WEIGHT:	E 257.00 (G	MS)
C N I C N O S C TISSUE / MISTOPATHOLOGIC FINDINGS	•	ů	S	T I S S U E	0 8 8 8 8 8 8 8 8	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ONS ERITY)	/ SPECIAL	COMMENTS		
AD SEBACIOUS					TISSUE	DRISSIR I PISSIE					
DIAPMRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION					MISCEL NOT SP	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	SUE ESENT)				

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
OF RESEARCH INDI RV GP START DA	DATA REPORT GLP83009
MBER: 229/PRETEST# 229 SEX: FEMALE EATH: 10-FEB-86 STUDY DAY OF DEATH: 750	1 SACRIFICE STATUS: FINAL SACRIFI F DEATH: 108 TERMINAL BODY VEIGHT:
ORGAN WAME ACTIONS / PHRASES SEVERITY	C T I O N S >> GROSS FREE-TEXT COMMENTS
l vo	STOMACH, INTESTINES, DIAPHRAGM, VENTRAL ABDOMINAL WALL Right flank, 5cm Diameter Black, .1cm Diameter
* NISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEARTCARDIOHYOPATHY	NOT SPECIFIED(TRACE)
LUNGSPNEUMONIA, INTERSTITIAL, CHRONIC	FOCAL (TRACE)
LYMPH WODES	. A FEW RBC'S AND MODERATE AMOUNTS OF PIGMENT ARE NOTED IN Mediastinal modes. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
UTERUS	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
STOMACH	

ESEARCH	INDIVIDUAL ANIMAL DATA REPORT PRINTED: 21-NOV-89 CTIDY NIMBED: 64 PAGE: 462
STUDY START DA	
229 SEX: FEMALE OF DEATH: 750	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE Study week of Death: 108 Terminal Body Weight: 254.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
STOMACH	NOT SPECIFIED (PRESENT)
TONGUE	. FOCAL (TRACE)
MANMARY GLANDS	THE SUBCUTANEOUS MASS IN THE RIGHT FLANK IS A MAMMARY FIBROADEMOMA. NOT SPECIFIED(MILD) (PRESENT) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCTS. Not specified(Trace)
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	NOT SPECIFIED (PRESENT) FOCAL (PRESENT)
CORNEAL MINERALIZATION -CORNEAL VASCULARIZATION -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): OF RESEARCH NY GP	INDIVIDUAL AND DATA REPORT GLP83009	: 21-NOV-89 : 463
230 SEX: FEMALE	STUDY TYPE: CHROMIC/2 SACRIFICE STATUS: FINAL SACRIFICE	CARCINOGENIC
BIOUT UAT UP DEATH: 730	H :	(GMS)
KEYLORD / PERSES	<	
GLAND	DIAPHRAGM, VENTRAL ABDOMIAL WALL	
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	•
THYROID GLANDS	(PRESENT)	
MEART	. WOT SPECIFIED(TRACE)	
- PHEUNONIA, INTERSTITIAL, CHRONIC	· FOCAL (TRACE)	
LYMPH HODES	REACTIVE HYPERPOLASIA PRESENT IN CERVICAL NODES. RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODE. NOT SPECIFIED (PRESENT)	
-COMPOUND RELATED INFLAMMATORY REACTION -HEPATITIS -NEPATOCYTIC VACUOLIZATION -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO -NEPATOCYTE TO A TO TO TO TO TO TO TO TO TO TO TO TO TO	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD)	
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)	
PANCREAS		

		Appendix		(CO)	J (cont.):	PATE	PATHOLOGY	INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	PATH SEL	OF RESEAR RV GP	X	6	TUDY STAR	INDIVIDU STUD IT DATE:	INDIVIDUAL ANIMAL DATA REPOSTUDY NUMBER: GLP83009 Study Start Date: 23-jan-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84	STUDY T	PRINTED: 21-NOV-89 PAGE: 464 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-N PAGE: 464 IC/2 YR CARCIN	PRINTED: 21-NOV-89 PAGE: 464 C/2 YR CARCINGENI
ANIMAL NUMBER: 230/PRETEST= DATE OF DEATH: 10-FEB-86 STUDY DAY	230/PRET 10-FEB-86 \$	/PRETEST= STUDY	ō	230 SEX: FEI OF DEATH: 750	230 SEX: FEMALE F DEATH: 750	DOSE STUDY	DOSE GROUP: 1 STUDY WEEK OF I	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT:	TATUS: FINA MINAL BODY	L SACRIFIC	E 274.00 (GMS)	GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	** THOLOGIC	M I C R O S FINDINGS	0 U	ပ ရ ၀	308811	S C E	0 8 8 1	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS	•	
PANCREAS	IE) ATROI	EXOCRIME) ATROPHY				•		NOT SPECIFIED(TRACE)				
мотор			:			•	TISSUE	TISSUE IS MISSING				
STOMACH	D INFLA	MMATORY RE	ACT 10N		•	•	. NOT SPE	NOT SPECIFIED (PRESENT)				
MAMMARY GLANDS	JOR HYPE	ERTROPHY OF	F THE A	CINAR	Issue	•	 NOT SPE NOT SPE	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)				
-FOCUS OF CELLULAR ALTERATION, VACUOLATED	AR ALTER	RATION, VA	CUOLATE		ATED	•		NOT SPECIFIED(MILD)				
PITUITARY GLAND		•			•	•	 (PRESENT)	•				
DIAPHRAGM	D INFLAM	MATORY RE/	VCT 10N				MISCELLANEOUS NOT SPECIFIED	RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESENT)				

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
IND I	DATA REPORT GLP83009
2/PRETEST 232 SEX: FEMALE 5 STUDY DAY OF DEATH: 663	
NE KEYLORDS / PHRASES	
ADMESTON(S) GROUTH(S) / MASS(ES) ADMERED TO MASS ADMERED TO PASS	
PRESENT PITUITARY GLAND ENLARGED PITUITARY GLAND DISCOLORATION PRESENT	NUMEROUS, FIRM, WHITE, .14CM DIANETER, DISSEMINATED IN Mesentery. 4mm diameter Red, Focal
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	FOCAL(TRACE)
MEART	NOT SPECIFIED(TRACE)
LUNGS	SECONDARY NEOPLASH FROM ORGAN LIVER
SPLEEN	NOT SPECIFIED (PRESENT)
-RED BLOOD CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	METASTATIC HEPATOCELLULAR CARCINOMA WITH RBC'S AND PIGMENT ARE PRESENT IN MEDIASTINAL AND MESENTERIC LYMPN NODES. NOT SPECIFIED (PRESENT)
- PRESENCE OF METASTATIC NEOPLASM	SECONDARY NEOPLASM FROM ORGAN LIVER
LIVER	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	OLOGY INDIVIDUAL ANIMAL DATA
OF RESEARCH RV GP STUDY START D	ANIMAL DATA REPORT NUMBER: GLP83009 - JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
AL MUMBER: 232/PRETEST 232 SEX: FEMALE OF DEATH: 15-MOV-85 STUDY DAY OF DEATH: 663	ŝ
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	DIFFUSE(MARKED) Multi-focal(mild) (present)
KIDNEY	NOT SPECIFIED(TRACE) SECONDARY NEOPLASM FROM ORGAN LIVER
UTERUS	NO HISTOLOGIC LESION WAS FOUND THAT CORRESPONDED TO THE MASS DESCRIBED GROSSLY. A THOROUGH SEARCH OF FORMALIN-FIXED TISSUE FOR THIS LESION WAS UNSUCESSFUL.
DUODENUM	SECONDARY NEOPLASM FROM ORGAN LIVER
JEJUNUM	NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN LIVER
PARCREAS	SECONDARY NEOPLASM FROM ORGAN LIVER
STOMACH	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MANMARY GLANDS	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)
HOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT. Not specified(MILD)
ADREMAL	

Appendix	ם	J (cont.):		PAT	THOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344		STU	DY STAR	INDIVID STU	INDIVIDUAL ANIMAL DATA REPC STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84	0 0	STUDY	TYPE: CHRO	PRINTED PAGE NIC/2 YR	PRINTED: 21-NOV-89 PAGE: 468 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 232/PRETEST= DATE OF DEATH: 15-MOV-85 STUDY DAY OF		232 SEX: FEM DEATH: 663	232 SEX: FEMALE DEATH: 663	DOSE STUD	DOSE GROUP: 1 STUDY WEEK OF DE	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 95 TERMINAL BODY WEIGHT: 270.00 (GMS)	SACRIFICE STATUS: SACRIFICED MORIBUND 95 TERMINAL BODY WEIGHT: 270.	RIFICED NO	RIBUND 270.00)
TISSUE / MISTOPATHOLOGIC FINDINGS	: •	5 1 d			O B S O I STRI	T S S U E O B S E R V A T (O M S >> O ISTRIBUTION (SEVERITY) / SPECIAL CONNENTS	S >>	COMMENTS	•	
ADREMAL					•	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	22			
DIAPMAGM				•	MISCEL NOT SP SECOND) M ORGAN LIV	~		

DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344	DELIERTAN ARRI 1851-1016 OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-544		INDIVID STU RT DATE:		DATA REPORT GLP83009	STUDY	PRINTED: 21-NOV-89 PAGE: 469 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: PAGE: IC/2 YR C	PRINTED: 21-NOV-89 PAGE: 469 C/2 YR CARCINGENI
ANIMAL NUMBER: 233/PRETEST= DATE OF DEATH: 10-FEB-86 STUDY DAY O	233/PRSTEST= EB-86 STUDY DAY		! } !	DOSE GROUP: 1 SACRI STUDY WEEK OF DEATH: 108	SACRIFICE TH: 108	E STATUS: FINAL SACRI TERMINAL BODY WEIGHT:	AL SACRIFICE WEIGHT:	258.00 (GMS)	GMS)
ORGAN NAME	< G R O S S KEYWORDS / PHRA	ORGAN O	6	. – 5	T I O N S ->> GROSS FREE-TEXT COMMENTS	I O N S ->- ROSS FREE-TEXT COMMENTS	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
LIVER	ADHESION(S) CYST(S)		PRESENT	DISTAL LEF	DISTAL LEFT HORN, .4CM D	DIAPHRAGM, VENTRAL ABDOMIAL WALL DISTAL LEFT HORM, .4CM DIAMETER			
TISSUE / NISTOPATHOLOGIC FINDINGS	3 % 0	0 1 0	SSUE	OBSERVA DISTRIBUTION	O B S E R V A T I O N S DISTRIBUTION (SEVERITY)	: <:	SPECIAL COMMENTS		
HEARTCARDIOMYOPATHY	EARTCARDIONYOPATHY			NOT SPECIF	NOT SPECIFIED(TRACE)				
SPLEEN	MENTATION (RED PULP)			NOT SPECIFIED	IED (PRESENT)	£			
-RED BLOOD CEELS, H MEDULLARY SINUSES	CEELS, HEMOSIDERIN AND/OR E	RYTHROPHAGOCYTO	:	RBC'S PRESENT Not specified		IN CERVICAL AND MEDIASTINAL (Present)	IASTINAL NODES	ĒS.	
-COMPOUND RELATED INFLAMMATORY REACTI-BILE DUCTULE EPITHELIAL HYPERPLASIA-NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOP-HEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -CYSTIC DEGENERATION -MEPATOCYTE COALESCING MICROVESICULAR -MECROSIS AND MINERALIZATION	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -WEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -HEPATOCYTIC VACUOLIZATION -CYSTIC DEGENERATION -WEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING WECROSIS AND MINERALIZATION	AND/OR CHOLANGIOFIBROSIS HILIC (FATTY) CHANGE LEADING TO		NOT SPECIFIED (PRE NOT SPECIFIED(MILD MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRE MULTI-FOCAL(MILD)	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD)	a a			
FIDNEYPROGRESSIVE RENAL	IDNEYPROGRESSIVE RENAL DISEASE			NOT SPECIFIED(TRACE)	IED (TRACE)				
UTERUS	DILATATION OF THE ENDOMETRIAL	GLANDS	•	FOCAL (PRESENT)	SENT)				

Appendix J (cont.): P	PATHOLOGY INDI	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	PRINT PA STUDY TYPE: CHRONIC/2 1
ANIMAL MUMBER: 233/PRETEST= 233 SEX: FEMALE DATE OF DEATH: 750 S	DOSE GROUP: 1 STUDY WEEK OF DEATH:	: •
TISSUE / MISTOPATNOLOGIC FINDINGS		O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRES	SPECIFIED(MILD) SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED(TRACE)	(TRACE)
EYES & OPTIC N	ERAL NOT SPECIFIED(TRACE)	(TRACE) (Trace)
DIAPURAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	TISSUE (PRESENT)

Appendix J (cont.): Pl	PATHOLOGY INDIVIDUAL ANIMAL DATA
≖ _	DATA REPORT GLP83009
234 SEX: FEMALE DEATH: 586	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 265.00 (GMS)
C G R O S S O R G A N O B KEYWORDS / PHRASES	S E R V A T I O M S >> SEVERITY GROSS FREE-TEXT COMMENTS
LIVER ADMESION(S) PRESENT LIVER GROWTH(S) / MASS(ES) PRESENT KIDNEY DISCOLORATION PRESENT	ENT DIAPHRAGM, VENTRAL ABDOMINAL WALL, STOMACH ENT IRREGULAR, SEMI-FIRM, WHITE, 5 X 4 X 4CM ENT DIFFUSELY BROWN
TISSUE / HISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LYMPH MODES	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODE.
LIVERCOMPOUND RELATED INFLAMMATORY REACTIONNEPATITISFOCUS OF CELLULAR ALTERATIOM BASOPHILIC	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD) NOT SPECIFIED(MILD) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
OVARIES	NOT SPECIFIED (PRESENT)
DUODENUM	MOT SPECIFIED (PRESENT)
STOMACH	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD)

INDIVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83009 STUDY START DATE: 23-JAM-84 STUDY START DATE: 23-JAM-84	(: FEMALE DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND : 586 STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 265.00 (GMS)	TISSUE OBSERVATIONS >> TISSUE OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	MOT SPECIFIED (PRESENT)			(PRESENT)	NOT SPECIFIED(TRACE)	THE SARCOMA INVOLVES PRIMARILY LIVER AND STOMACH. THERE ARE MANY LARGE AREAS IN WHICH NEOPLASTIC CELLS HAVE MORPHOLOGY TYPICAL OF OSTEOBLASTS AND ARE PRODUCING ABUNDANT OSTEOID. OSTEOID IS MINERALIZED IN SOME AREAS. IN OTHER AREAS, CELLS ARE ANAPLASTIC AND HAVE A HIGH MITOTIC RATE. FOCAL AREAS OF NESPECIFIED (PRESENT IN THESE AREAS.
STITUTE OF RESEARCH PATM SERV GP MER-344	AMIMAL NUMBER: 234/PRETEST= 234 SEX: FEMALE DATE OF DEATH: 30-AUG-85 STUDY DAY OF DEATH: 586	I CROSCOPIC INDINGS	NAMMARY GLANDS	MOSE/TURBINATES	ADREMAL	PITUITARY GLAND	EYES & OPTIC N	ABDOMINAL CAVITY

DIAPHRAGM MISCELLANEOUS TISSUE COMPOUND RELATED INFLANMATORY REACTION NOT SPECIFIED (PRESENT)

	Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 236/ DATE OF DEATH: 30-AUG-85	PRETEST 236 SEX: FEMALE STUDY DAY OF DEATH: 586	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 294.00 (GMS)
ORGAN NAME	ORGAN OB	*
SKIM OVARIES LIVER LIVER EYES & OPTIC M. PITUITARY GLAND	SUBCUTANEOUS MASS PARA-OVARIAN CYST(S) GROWTH(S) / MASS(ES) PROMINENT LOBULAR MARKINGS PRESENT CORNEAL OPACITY RALARGED	LEFT INGUINAL AREA, 3.5CM DIAMETER LEFT, 3 X 2CM, CLEAR YELLOW FLUID FILLED FIRM, WHITE, LOBULAR, 3 X 3 X 2CM PALE WHITE MULTIPLE, FOCAL, PINPOINT HEMORRHAGIC
TISSUE / HISTOPATH	C T S S C O P I C T I S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM -ACINAR ATROPNY		FOCAL (TRACE)
HEART	ONYOPATHY	NOT SPECIFIED(TRACE)
LYMPH NODES	TAPH NODES	RBC'S AND PIGMENT ARE PRESENT IN MEDIASTINAL AND MESENTERIC NODES. NOT SPECIFIED (PRESENT)
- COMPOUND RELATED INFLAMMA - NEPATITIS - NEPATOCYTIC VACUOLIZATION - NEPATOCYTIC DEGENERATIVE - NECROSIS, PERIACIMAR - N- PRESENCE OF METASTATIC	-COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -NEPATOCYTIC VACUOLIZATION -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -NECROSIS, PERIACINAR -N- PRESENCE OF METASTATIC SARCOMA	NOT SPECIFIED (PRESENT) MULTI-FOCAL (TRACE) MULTI-FOCAL (MILD) NOT SPECIFIED (MILD) NOT SPECIFIED (MODERATE) SECONDARY MEOPLASM FROM ORGAN
KIDNEY	IDMEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)

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Appendix J (Con	(cont.): PATHOL	PATHOLOGY INDIVIDUAL ANIMAL DATA
•	TAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84
EST= TUDY DAY OF	HALE	100
TISSUE / NISTOPATHOLOGIC FINDINGS	308511	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
OVARIES		THE WALL OF THE PAROVARIAN CYST IS ON SECTIONS #10 AND #24. Section #11 (OVARIES) HAS NO LESION. Not specified (Present)
YPERTROPHY OF THE OF DUCT		THE SUBCUTANEOUS MASS IN THE INGUINAL AREA IS A MAMMARY FIBROADENOMA. NOT SPECIFIED (MODERATE) (PRESENT) NOT SPECIFIED (PRESENT)
PITUITARY GLAND		(PRESENT)
EYES & OPTIC M		NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
ABDONINAL CAVITY		MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. NEOPLASTIC CELLS ARE POORLY DIFFERENTIATED AND ANAPLASTIC IN MOST AREAS. (PRESENT)
:		MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY

DATA
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Appendix

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DIV OF RES SUPP, PATH SERV GP STUDY START DATE: 23-JAN-84	GLP83009 PAGE: CHRONIC/2 YR CA
237/PRETEST# 237 SEX: FEMALE V-85 STUDY DAY OF DEATM: 667	
GROSSORGAN OB	
PROM I NENI GRANULAR	₹
SPLEEN ENLARGED (SPLENOMEGALY) MARKED PERITONEAL CAV. FLUID-FILLED JEJUNUM ENLARGED	7 x 2.5 x 1cm 3ml red fluid 2 x 2 x 1.5cm, 12cm from Stomach
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLAMDS	NOT SPECIFIED(TRACE)
EXORBITAL LACRIMACIMAR ATROPHY	. FOCAL (TRACE)
NEART	. NOT SPECIFIED(MILD)
SPLEEM	FOCAL(TRACE) NOT SPECIFIED (PRESENT)
LYMPH MODES	. REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD) FOCAL(TRACE)
KIDNEY	

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
START	DATA REPORT GLP83009
* 237 SEX: FENALE Y DAY OF DEATH: 667	SACRIFICE STATUS: SACRIFICED MOR DEATH: 96 TERMINAL BODY WEIGHT:
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPISEASE	NOT SPECIFIED (TRACE)
JEJUNUM	
-COMPOUND RELATED INFLAMMATORY REACTION -ENTERITIS, SUBACUTE -NUCOSAL EROSION/ULCERATION -PRESENCE OF NUCOSAL EPITHELIAL CELLS WITHIN INTESTINAL WALL AND ADANCENT FIBROUS/GRANULOMATORY REACTION -FIBROVASCULAR ADHESION, SEROSA	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
PANCREAS	PANCREATIC LESIONS NOTED ADJACENT TO "ENLARGED" AREA OF SMALL INTESTINE WHICH CONSISTS OF COMPOUND-RELATED INFLAMMATORY REACTION AND ADHESIONS. DIFFUSE(MILD) DIFFUSE(MILD) NOT SPECIFIED (PRESENT)
MANNARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
BONE VERT	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	

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INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 290.00 (GMS)	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)	NA NOT SPECIFIED (PRESENT)
MAL DA ER: GL -84	1 OF DEA	S E R	SPECI	SPECI
NL ANII F NUMBE	DOSE GROUP: 1 STUDY WEEK OF DEAT	0 0		. MISC NOT
	DOSE STUDY			
IN TART	w	S	:	
s Lon	FENA 667	H		
IN STUDY START	237 SEX: FEMALE IF DEATH: 667	- C - C - C - C - C - C - C - C - C - C	•	
X C	DAY			ACTI
LETTERMAM ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	ANIMAL MUMBER: 237/PRETEST# DATE OF DEATM: 19-NOV-85 STUDY DAY O	TISSUE / MISTOPATHOLOGIC FINDINGS	EYES & OPTIC N	-COMPOUND RELATED INFLAMMATORY REACTION
UTE OF SERVING	237/F 1-85	2015 1015	10N 110M	FLAMM
LETTERMAN ARNY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ANIMAL MUMBER: 237/PI Date of Death: 19-Mov-65	ATHOLC	YES & OPTIC NCORNEAL MINERALIZATION -CORNEAL VASCULARIZATION	TED IN
S SUPP	ANIMAL MUNDER: DATE OF DEATH: 19	11 S T O P	TIC N. MINER. VASCU	RELA
RMAN F RES	0 P DE	E / 1	L OPT NEAL NEAL	RAGM
LETTE DIV Q SPECI	DATE	11550	EYES - COR	DIAPNRAGN - COMPOUND

J (cont.): PJ	NTECLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 TE: 23-JAN-84
MBER: 239/PRETEST= 239 SEX: FEMALE EATH: 12-FE8-86 STUDY DAY OF DEATH: 752	1 SACRIFICE S OF DEATH: 108 TER
A GROSS ORGAN OS	
LIVER ADMESION(S) PRESENT PERTONEAL CAV. ADMESION(S) PRESENT EVES & OPTIC M. CORNEAL OPACITY OVARIES PITUITARY GLAND DISCOLORATION PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL INTESTINES ADHERED TO THEMSELVES AND ABDOMINAL WALL MULTIPLE, RAISED, FOCAL, LEFT RIGHT, CLEAR FOCAL, BLACK, .2CM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
EXORBITAL LACRIM	FOCAL (TRACE)
HEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
LYMPN NODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODE. Not specified (present)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -GILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGN HYPERPLASTIC NODULE(S) -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD)
KIDNEY	

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PATHOLOGY	
(cont.):	
Appendix J	

INDI STUDY START DA	DATA REPORT GLP83009 STU
239 SEX: FEMALE F DEATH: 752	P: 1 SACRIFICE STATUS: FINA K OF DEATH: 108 TERMINAL BODY
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDMEYPROGRESSIVE REMAL DISEASE	MOT SPECIFIED(TRACE)
OVARIES	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
ILEUM	NOT SPECIFIED (PRESENT)
PANGREAS	MULTI-FOCAL(MILD)
STOMACH	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD) Not specified (present)
ADREMAL	MULTI-FOCAL(MILD)
PITUITARY GLAND	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC M	

Appendix	J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAI/FISCMER-344	,	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 482 C/2 YR CARCINGENIC
ANIMAL NUMBER: 239/PRETEST= 239 SEX: FED DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752	IALE	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 306.00 (GMS)	06.00 (GNS)
** N I C R O S C O TISSUE / NISTOPATHOLOGIC FINDINGS	2 L C T I S	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
EYES & OPTIC M	, UNILATERAL OR BIL.	ATERAL MOT SPECIFIED(MILD) NOT SPECIFIED(MILD) CT MOT SPECIFIED (PRESENT)	
-COMPOUND RELATED INFLAMMATORY REACTION	20	MISCELLANEOUS TISSUE	

ix J (cont.): RCH STUDY STAR	INDIVIDUAL DATA REPORT GLP83009
AL NUMBER: 240/PRETEST= 240 SEX: FEMALE DOS OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STU	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 241.00 (GMS)
ORGAN MAME A C R C A R O R C A R O R C A V A C R C V A C A R C V C A C A R C C C C C C C C C C C C C C C	VATIONS >> ITY GROSS FREE-TEXT COMMENTS
ADMESTON(S)	
C MICROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(MILD)
SPLEEN	NOT SPECIFIED (PRESENT)
LYMPH HODES	RBC'S AND PIGMENT NOTED IN MEDIASTINAL NODE. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) FOCAL(TRACE) NOT SPECIFIED(MODERATE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
JEJUNUMCOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCT. Not specified(trace)
EYES & OPTIC M	:

	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jam-84	ALPB3009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 240/PRETEST= 240	240 SEX: FEMALE DOSE GROUP: 1 DEATH: 752 STUDY WEEK OF DEATH	240 SEX: FEMALE DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE DEATH: 752 STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 241.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS		PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EYES & OPTIC M	NOT S	NOT SPECIFIED(TRACE)
DIAPMRAGM	MISCELLANEOUS TISSUE	MISCELLAMEOUS TISSUE

Appendix J (cont.): PATHOLOGY	
STUDY STAR	GLP63009 STUDY TYPE: CHRONI
241 SEX: FEMALE OF DEATH: 752	P: 1 SACRIFICE STATU K OF DEATH: 108 TERMINA
ORGAN NAME A CHUNDOS / PHRASES A C B SEVERITY O	GROSS FREE-TEXT COMMENTS
ADHESION(S) PRESENT	STOMACH, INTESTINES, DIAPHRAGM, VENTRAL ABDOMINAL WALL
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	MULTI-FOCAL(MILD)
LYMPN NODES	REACTIVE HYPERPLASIA MOTED IN CERVICAL NODES. RBC'S AND PIGMENT MOTED IN MEDIASTINAL MODE. NOT SPECIFIED (PRESENT)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -NEPATICYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MODERATE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
UTERUS	NOT SPECIFIED (PRESENT)
DUODENUM	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
PANCREAS	

Appoidix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
ANIMAL WUMBER: 241/PRETEST# 241 SEX: FEMALE DOSE GROUP: 1 DATE OF DEATH: 752 STUDY WEEK OF	SACRIFICE STATU DEATH: 108 TERMINA
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	FOCAL (TRACE)
STOMACH	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD)
NOSE/TURBINATES	
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESENT)	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): P. E of Research story of story start by	INDIVIDUAL DATA REPORT GLP83009
242 SEX: FENALE OF DEATH: 726	1 SACRIFICE STATU OF DEATH: 104 TERMINA
ORGAN NAME < GROSS ORGAN OBSERVA SEVERITY EYES & OPTIC N. CRUSTY MATERIAL, PERIORBITAL PRESENT LIVER	GROSS FREE-TEXT COMMENTS RED FOCAL, MULTIPLE, .12CM DIAM
C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROLD	TISSUE IS MISSING
HEART	NOT SPECIFIED(MILD) HOT SPECIFIED(TRACE)
LYMPM MODES	REACTIVE HYPERPLASIA PRESENT IN CERVICAL AND MESENTERIC NODES. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
MAMMARY GLANDS	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)
ADREWAL	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
EYES & OPTIC M	

LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCNER-344 SPECIES: RAT/FISCNER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-64 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
AMIMAL NUMBER: 242/PRETEST= 242 SEX: FEMALE DOSE GR DATE OF DEATH: 17-JAM-86 STUDY DAY OF DEATH: 726 STUDY W	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 222.00 (GMS)
I C R O S C O P I C T	ISSUE OGSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EVES & OPTIC M	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLANMATORY REACTION	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

PA T	INDIVIDI DATA REPOR GLP83009
243 SEX: FEMALE DEATH: 752	: 1 SACRIFICE STA
ORGAN OS	S E R V A T 1 O M S >> SEVERITY GROSS FREE-TEXT COMMENTS
SPLEEN ADMERED TO PERITONEAL VALL PRESENT ADMERED TO PERITONEAL VALL PRESENT POLYP POLYP PRESENT PRESE	DIAPHRAGM, STOMACH, VENTRAL ABDOMINAL WALL RIGHT HORN, 3.5 X 2CM, INTRALUMINAL FOCAL, DARK RED, .2CM DIAMETER
TISSUE / MISTOPATWOLGGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TMYROID GLANDSB- PARA-FOLLICULAR CELL ADENOMA	(PRESENT)
MEARTCARDIOMYOPATHY	NOT SPECIFIED (TRACE)
SPLEER	FOCAL (TRACE)
LYMPH MODES	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODES. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NULTI-FOCAL(MODERATE) NULTI-FOCAL(MILD) NULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)

dix J (cont.): Posten	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84
: FEMALE 752	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 228.00 (GMS)
	U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
-ENDOMETRIAL STROMAL POLYP -ENDOMETRITIS, SUBACUTE -M- LEIOMYOSARCOMA	A LARGE STROMAL POLYP IS PRESENT IN THE UTERUS. WITHIN THIS LESION IS A SMALL FOCAL AREA COMPRISED OF SPINDELOID CELLS ARRANGED IN EITHER PARALLEL BUNDLES OR WHORLS. FEW MITOTIC FIGURES ARE PRESENT. THE LESION IS WELL-DEMARCATED BUT NOT ENCAPSULATED. IT IS VERY IRREGULAR IN SHAPE AND APPEARS TO BE INFILTRATING THE STROMA. THE PERIPHERAL ENDOMETRIUM IS INFILTRATED WITH MIXED INFLAMMATORY CELLS. NOT SPECIFIED (PRESENT) HOT SPECIFIED (TRACE)
STOMACH	NOT SPECIFIED (PRESENT)
MANMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBIMATES	CELLULAR INFILTRATE INVOLVES THE NASO-LACRIMAL DUCTS. Not specified(MILD)
BONE, STERNUM	NOT SPECIFIED (PRESENT)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
BONE VERT	HOT SPECIFIED (PRESENT)
ADRENAL	NOT SPECIFIED (MILD)
PITUITARY GLAND	

Appendix J (cont.):		PATHOLOGY INDIVIDUAL ANIMAL DATA	DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCNER-344	IND TUDY START D	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 491 Study Type: Chronic/2 yr Carcingenic
) [IALE	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 228.00 (GMS)	SACRIFICE STATUS: FINAL SACRIFICE TH: 108 TERMINAL BODY WEIGHT: 228.00 (GMS)
	1 1 2 S U E	OBSERVATI DISTRIBUTION (SEVE	ONS >>
PITUITARY GLAND		(PRESENT)	
EYES & OPTIC M	ION, SCLERA	NOT SPECIFIED (PRESENT)	
-COMPOUND RELATED INFLAMMATORY REACTION			

Bndix J (cont.): ESEARCH	LOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT
STUDY START DATE:	GLP03009 PAGE: CHRONIC/2 VR CA
4/PRETEST 244 SEX: FEMALE 5 STUDY DAY OF DEATH: 667	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 270.00 (GMS)
NAME KEYWORDS / PHRASES	T I O N S >> GROSS FREE-TEXT
	UTERINE BODY, 3CM DIAMETER, FIRM VENTRAL ABDOMINAL WALL RED, BILATERAL
C N S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
EXORBITAL LACRIM	FOCAL(TRACE) FOCAL(TRACE)
HEART	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEN	NOT SPECIFIED (PRESENT)
- RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	REACTIVE HYPERPLASIA PRESENT IN MEDIASTINAL AND MESENTERIC Nodes. Pigment noted in mediastinal nodes. Not specified (present)
TENCTIVE NYPERPLASIA	MOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLANMATORY REACTION	NOT SPECIFIED (PRESENT)

A 2	INDIVIDUAL AN: DATA REPORT GLP63009
810 244 SEX: FENALE 1007 DAY: 0	SIUDT ITPE: CHRUNIC/Z TR CARCINOGENIC DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDT WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 270.00 (6MS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S V V DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (TRACE)
UTERUS	(PRESENT)
JEJUNUM	INTESTINE ADHERED TO LIVER. COMPOUND INDUCED INFLMMATORY Reaction present in area of adhesion. Not specified (present)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES MASO-LACRIMAL DUCT.
BOME, STERMUM	NOT SPECIFIED (PRESENT)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
BONE VERT	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
UIAPHRAGH	MISCELLAMEOUS TISSUE Not Specified (Present)

	Ap	Appendix	ь	(cont.):		PATHOLOGY	OGY :	INDIVIDUAL DATA REPORT	ANIMAL DATA	DATA	PRINTED: PAGE:	PRINTED: 21-NOV-89 PAGE: 496
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	P. PATH SERV	F RESEARCH GP		STUDY	START	STUDY DATE: 23	LAN-84	STUDY NUMBER: GLP63009 STUDY START DATE: 23-JAN-84	STUDY TYPE	STUDY TYPE: CHRONIC/2 YR CARCINOGENIC	CHRONIC/2 YR CARCINOG	RCINOGEN
SPECIES: RAT/FISCHER.344 ANIMAL MUMBER: 247	1SCHER-344 247/Pi	247/PRETEST®	7 06	: 55 =	:	DOSE GROUP: 1 STUDY WEEK OF DE	OUP: 1 EEK OF	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT:	STATUS: FI	NAL SACRIFICE Y WEIGHT: 243.00	243.00 (GNS)	GNS)
DATE OF DEATH: 12	00-84-21 9 >>	C G R O S S O R G A R KEYLOROS / PURASES	NRASE	* Y & W	: <u>a</u>	SEVERITY	GROSS	SERVATIONS YY SEVERITY GROSS FREE-TEXT COMMENTS SEVERITY GROSS FREE-TEXT COMMENTS	ST 2	VENTRAL ABDO	MINAL WAL	د.
CREAR ANTE		ADHESION(S) PROMIMENT LOBU	BULAR	JLAR MARKINGS		PRESENT PRESENT PRESENT	STOMAC DARK R	STOMACH, INTESTINES, ULI DARK RED, "SCH DIAMETER	E 28			1
118SUE / HISTOPATHOLOGIC FINDINGS	ATHOLOGIC	T C B O S	; -		5 -		8 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	OBSERVATIONS >> OBSERVENTS OBSTRIBUTION (SEVERITY) / SPECIAL COMMENTS	TY) / SPECI	AL COMMENTS		
EXORBITAL LACRIM -ACIMAR ATROPHY	RIN		:				FOCAL	FOCAL (TRACE)				
MEART	ARA					•		NOT SPECIFIED(MILD)				
LUNGS	UMGS INTERSTITIAL, CRRONIC							MULTI-FOCAL(TRACE)				
SPLEEM	PLEEM	HOCYTE LEUK	EN1A,	MIA, METASTATIC				PRESENT) REACTIVE HYPERPLASIA AND RBC'S PRESENT IN MEDIASTINAL MODES.	AND RBC'S	PRESENT IN PRESENT IN PRESENT IN PRESENT FRICTION FOR	MED LAST INA DES.	L NODES.
LYMPH MODES REM - RED BLOOD CEELS, NEM MEDULLARY SINUSES - REACTIVE HYPERPLASIA - DILATED AND/OR CYSTI	YMPH MODES	IDERIN AND!	OR ERY	R ERYTHROPHAGOCYTOSIS WITHIN)CY TOS	NIHIN S		DILATED SINUSOIDS PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	EZT) EZT) EZT) EZT)			
LIVER COMPOUND R. MEPATOCYTE MEPATOCYTE MEPATOCYTE MEPATOCYTE MEPATOCYTE	JVER	IMMATORY REITON TON VE CHANGES		TION NON-NECROTIC) INIA, METASTATIC	91		MOT SPECI MULTI-FO MOT SPECI (PRESENT)	NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD) PRESENT)	C			

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009
247 SEX: FEMALE OF DEATH: 752	SACRIFICE STATUS: FINAL SACRIFICE DEATH: 108 TERNINAL BODY WEIGHT: 243.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED(TRACE)
KIDNEYPISEASEPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
OVARIESFOLLICULAR CYST(S)	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED(MILD)
STOMACH	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT TO THE MASO-LACRIMAL DUCT. Not specified(MILD)
ADRENALFERATION, VACUOLATED	NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
WHOLE BODY	

DIAPMRAGN MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESENT)

Appendix Letterhan army institute of research DIV of res supp. Path serv gp species: Rat/Fischer-344	Appendix . TE OF RESEARCH SERV GP	00)	×	ont.): PATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84		INDIVIDUAL DATA REPORT GLP83009	AL ANI	ANIMAL I	DATA YPE: CHRON	PRINTED: PAGE: 11C/2 YR C/	IMAL DATA PRINTED: 21-NOV-89 PAGE: 499 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL HUMBER: 248/PRETEST= 248 SEX: F Date of Death: 13-Feb-85 Study Day of Death: 38	248/PRETEST= 248 SEX: FEI 1-85 STUDY DAY OF DEATH: 388	248 SEX: FEMALE OF DEATH: 388	ENALE B	DOSE GROUP: 1 SACR		SACRIFICE STATU DEATH: 56 TERMINA	SACRIFICE STATUS: FOUND DEAD 56 TERMINAL BODY WEIGHT:	FOUND BODY WE	DEAD EIGHT:	229.00 (GNS)	(GMS)
ORGAN NAME	G R O S S KEYWORDS / PHRA	ORGAN SES	sa O	4 _	T I O	T I O N S >> GROSS FREE-TEXT COMMENTS	ARENTS		•	•	6 6 0 0 8
LIVER PERITONEAL CAV. PITUITARY GLAND	ADMESTON(S) ADMESTON(S) MEMORRHAGIC	:		PRESENT PRESENT PRESENT	DIAPHRAG TWO LOOP SURROUND	DIAPHRAGM, VENTRAL ABDOMINAL TWO LOOPS OF SMALL INTESTINE SURROUNDED BY BLOOD CLOT	ABDOMINAL INTESTINE	WALL, C Adhered	SECUM TO RIGH	T ABDOM!	WALL, CECUM Adhered to right abdominal wall.
TISSUE / MISTOPATHOLOGIC FINDINGS	M I C R O S C	0 P I C	S	3 n	OBSER DISTRIBUTI	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S >>	ECIAL CO	ECIAL COMMENTS		
EXORBITAL LACRIM					TISSUE I	TISSUE IS MISSING					
. ≦ ⊑	ND RELATED INFLAMMATORY REACTION	-		: :	NOT SPECI	SPECIFIED (PRESENT) SPECIFIED (TRACE)	SENT)				
FROGRESSIVE REMAL DISEASE	EASE				NOT SPECI	NOT SPECIFIED(TRACE)					
-COMPOUND RELATED INFLAMMATORY REACTION	AMMATORY REACTIO	•		:	NOT SPECIFIED	IFIED (PRESENT)	ENT)				
-CECUM	AMMATORY REACTIO			:	VOT SPEC!	NOT SPECIFIED (PRESENT)	ENT)				
RECTUM				1	FISSUE 11	TISSUE IS MISSING					
COLOW	AMMATORY REACTIO		•	:	OT SPECI	NOT SPECIFIED (PRESENT)	ENT)				
MAMMARY GLANDS	D/OR HYPERTROPHY OF THE	ACINAR TISSUE	sue	:	IOT SPECI	NOT SPECIFIED(MILD)					

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DATA REPORT DIV OF RES SUPP. PATH SERV GP STUDY START DATE: 23-JAN-84	6F 6F
248 SEX: FEMALE DEATH: 388	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 56 TERMINAL BODY WEIGHT: 229.00 (GMS)
0 P 1 C T 1 S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	MOT SPECIFIED (PRESENT)
PITUITARY GLAND	PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE Not specified (present)

L DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
J (cont.):
xipuedd

STUDY START DA	DATA REPORT GLP83009 STU
53/PRETEST= 253 SEX: FEMALE 86 STUDY DAY OF DEATH: 732	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: 238.00 (GMS)
	GROSS FREE-TEXT COMMENTS GROSS FREE-TEXT COMMENTS DIAPHRAGM DARK RED, .9CM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S VV DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PRAIN -1-PITUITARY TUMOR INVASION	(PRESENT)
PARATHYROID	TISSUE IS MISSING
LACRIMAL GLAND	MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD)
EXORBITAL LACRIM	FOCAL (TRACE)
MEART	NOT SPECIFIED(TRACE)
SPLEEN	NOT SPECIFIED(MILD)
LYMPH NODES	REACTIVE HYPERPLASIA, RBC'S AND PIGNENT ARE PRESENT IN CERVICAL And Mesenteric Lymph Nodes. Not specified (Present)
- REACTIVE MYPERPLASIA	NOT SPECIFIED (PRESENT)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
RV GP STUDY START DA	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
PRETEST 253 SEX: FEMALE D STUDY DAY OF DEATH: 732 S	SACRIFICE STATU OF DEATH: 105 TERMINA
TISSUE / BISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATOCYTIC VACUOLIZATION	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
KIDMEY DEGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
OVARIES	NOT SPECIFIED (PRESENT)
STOMACH	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MODERATE) WOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS NEAR NASO-LACRIMAL DUCT. Not specified(moderate)
PITUITARY GLAND	(PRESEMT)
DIAPHRAGM	MISCELLANEOUS TISSUE Not specified (present)

LETTERNAM ARRY LESTITUTE OF RESEARCH DIV OF RES SUPP. PATE SEV SP SPECIES: RAT/FISCHER-344			INDIVIDUAL ANIMAL Study Number: T date: 23-jan-84		DATA REPORT GLP83009	-	STUDY IY	PRINTED: 21-NOV-89 PAGE: 507 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED PAGE IC/2 YR	PRINTED: 21-NOV-89 PAGE: 507 C/2 YR CARCINGGENI
ANIMAL NUMBER: 254/PRETEST= DATE OF DEATH: 14-FEB-86 STUDY DAY	25 0f 0	254 SEX: FEMALE DEATH: 754	DOSE GROUP: 1 SACRI STUDY WEEK OF DEATH: 108	BOSE GROUP: 1 SACR.	SACR ATH: 108	: =	US: FINAL	CE STATUS: FINAL SACRIFICS TERMINAL BODY WEIGHT: 255.00 (GMS)	255.00 (GNS)	(ens)
ORGAN MANE KEYLORDS / PHR.	PERASES A	6	S E R V A SEVERITY		N S >> FREE-TEXT COM	T I O & S VV GROSS FREE-TEXT CONNENTS	RERIS	1		
LIVER ADMESSION(S) DUODEMUM ADMERED TO LIVER PITUITARY GLAND DISCOLORATION MANNARY GLAND PROMINENT	LIVER ION		PRESENT PRESEN	DIAPHRAGH ONE LOOP FOCAL, RED RIGHT AXI	ED, .2CM	DIAPHRAGH ONE LOOP FOCAL, RED, .2CM DIAMETER RIGNT AXILLARY				
C N I C R O S C TISSUE / MISTOPATHOLOGIC FINDINGS	7 C C C C C C C C C C C C C C C C C C C	<i>s</i> -	SCE	OBSER DISTRIBUTE	V A T		N S >>	DMMENTS		
TMYROID GLANDS				(PRESENT)						
MEART				NOT SPECIFIED(MILD)	IFIED (MI	(0)				
-NEMOSIDERIN PIGNENTATION (RED PULP)	•			NOT SPEC	NOT SPECIFIED (PRESENT)	RESENT)				
LYMPH HODES	; -	ERYTHROPHAGOCYTOSIS WITHIN	NITHIN S	RBC'S ANI HOT SPECI	S AND REACTIVE HYPE SPECIFIED (PRESENT) SPECIFIED (PRESENT)	RBC'S AND REACTIVE NYPERPLASIA PRESENT IN CERVICAL NODES. Not specified (present) Not specified (present)	ASIA PRESI	ENT IN CER.	VICAL NO	DES.
-COMPOUND RELATED IMFLAMMATORY REACTIO-BILE DUCTULE EPITMELIAL MYPERPLASIA A-MEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPM-MECROSIS, MEPATOCYTE, INDIVIDUAL CEL-MEPATOCYTE COALESCIMG MICROVESICULAR MECROSIS AND MIRRALIZATION	CTION IA AND/OR CH SOPHILIC CELLS	NA CHOLANGIOFIBROSIS IILIC LS (FATTY) CHANGE LEADING TO	ROSIS	NOT SPECIFIED (PRESE NOT SPECIFIED(TRACE) NULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(MODERA	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) HULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)	RESENT) ACE) ACE) ACE) CONTRACE) ERATE)				

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 254/PRETEST* 254 SEX: FEMALE DOSE GROUP: Date of Death: 14-feb-86 Study Day of Death: 754 Study Week of	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 255.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
PANCREAS	FOCAL (TRACE)
MAMMARY GLANDS	PROMIMENT MAMMARY TISSUE IN RIGHT AXILLARY AREA IS A MAMMARY FIBROADEWOMA. NOT SPECIFIED(MILD) (PRESENT) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	BILATERAL CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS. Not specified(Trace)
ADREMAL	NULTI-FOCAL(TRACE)
PITUITARY GLAND	(PRESERT)
EYES & OPTIC M	NOT SPECIFIED(TRACE) FOCAL(TRACE)
DIAPHRAGH	MISCELLANEOUS TISSUE Not specified (present)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
IND I	DATA REPORT Glp63009 Study Type: Cnrowi
255 SEX: FEMALE OF DEATH: 754	DOSE GROUP: 1 SACRIFICE STATUS: FIWAL SACRIFICE Study Week of Death: 108 Terminal Body Weight: 250.00 (GMS)
	A T I D M S >> GROSS FREE-TEXT COMMENTS
LIVER ADMESSON(S) PRESENT DUGOENUM ADMERED TO LIVER PRESENT PRESENT PITUITARY GLAND ENLARGED	DIAPHRAGM, STOMACM, VENTRAL ABDOMINAL WALL DARK, .5CM DIAMETER
C NISSUE / MISTOPATNOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	TISSUE IS MISSING
EXORBITAL LACRIM	NOT SPECIFIED(MILD)
HEART	NOT SPECIFIED(MILD)
LUMGS	NOT SPECIFIED(TRACE)
LYMPH MODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES Not specified (present)
LIVER -COMPOUND RELATED INFLANMATORY REACTION -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NEPATOCYTIC VACUOLIZATION -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
MANNARY GLANDS	

INDIVIDUAL ANIMAL DATA REPORT Study Number: GLP83009 Study Start Date: 23-Jan-84	PRINTED: 21-NOV-89 PAGE: 510 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
PRETEST. STUDY DAY	IFICE : 250.00 (GNS)
TISSUE / WISTOPATHOLOGIC FINDINGS OBSERVATIONS >>	\$1
MANMARY GLANDS	
PITUITARY GLAND	
DIAPHRAGM MISCELLANEOUS TISSUE -CONPOUND RELATED INFLAMMATORY REACTION	

CANDERES OF GAN OB SER VATION SACRFILE STATUS: FINAL BACK FINAL BA	LETTERNAM ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	J (cont.): 1 IND STUDY START D	HOU
KEYWORDS / PHRASES KEYWORDS / PHRASES ADHERED TO LIVER PRESENT PRESENT PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT ADHERED TO LIVER PRESENT	AMIMAL NUMBER DATE OF DEAL.	PRETEST 256 SEX: FEMALE STUDY DAY OF DEATH: 754	IFICE STATUS: FINAL SACRIFICE TERMINAL BODY MEIGHT:
ADMERED TO LIVER PRESENT PROMINENT ENLANGED (SPLENOMEGALY) PRESENT ADMESION(S) ADMESION(S) ADMESION(S) ADMESION(S) ADMESION(S) ADMESION(S) ADMESION(S) ADMESION(S) ADMINENT LOBULAR MARKINGS PRESENT P	ORGAN NAME	ORGAR OBSERV	T 1 680
THICKENED ADHESION(S) GROWTH(S) / MASS(ES) PRESENT GROWTH(S) / MASS(ES) PRESENT DISCOLORATION PRESENT DISCOLORATION PRESENT POLYP STOPATHOLOGIC FINDINGS AND COLLICULAR CELL ADENOMA GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC GRAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC GRELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SIMUSES	JEJUNUM MAMMARY GLAND SPLEEN DUODENUM		3CM LENGHT LEFT INGUINAL,5 X 3.5CM 8 X 1.5 X 1CM
ENLARGED FRESENT ENLARGED PRESENT FOLYP A	DUODENUM LIVER LIVER	SS(ES)	ENLARGED TO 1CM DIAMETER Diaphragm Firm, white, 1.5cm diameter, medial lobe
STOPATHOLOGIC FINDINGS NDS OLLICULAR CELL ADENOMA GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC A, CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	LIVER THYROID UTERUS	ATION	RIGHT ACCESSORY LOBE,GREEN/YELLOW,MARGIN. Left .3cm diameter. Right medial.2cm.
PATHY GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC 1, CHRONIC GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC CHRONIC SAMULAR LYMPHOCYTE LEUKEMIA, METASTATIC	TISSUE / HISTO	0800010	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC 1, CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SIMUSES	THYROID GLAND! -8- PARA-FOLL	ICULAR CELL ADENOMA	(PRESEMT)
GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC 1, CNRONIC BRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SIMUSES	HEART		NOT SPECIFIED(TRACE)
1, CHRONIC SRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC (CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SIMUSES	5	A, METASTATIC	(PRESENT)
CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SIMUSES	SPLEEN -INFARCTION, -N- LARGE GRA		NOT SPECIFIED (MODERATE)
		ERYTHROPHAGOCYTOSIS WI	REACTIVE HYPERPLASIA PRESENT IX CERVICAL AND MEDIASTINAL NODES. Pigment present in mediastinal nodes. Not specified (present)

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
UTE OF RESEARCH INDISERV GP START DA	DATA REPORT GLP83009 STUDY TYPE: CHRONIC
UNBER: 256/PRETEST= 256 SEX: FEMALE DEATH: 14-FEB-86 STUDY DAY OF DEATH: 754	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNIMAL BODY WEIGHT: 260.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	DESTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LYMPH MODES	NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) NULTI-FOCAL(MARKED) NOT SPECIFIED (PRESENT) DIFFUSE(MARKED) (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
KIDREY	NOT SPECIFIED(TRACE)
UTERUSENDOMETRIAL STROMAL POLYP	NOT SPECIFIED (PRESENT)
OVARIES	NOT SPECIFIED (PRESENT)
DUODENUM	SECONDARY NEOPLASM FROM ORGAN NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
JEJUNUM	SECONDARY NEOPLASM FROM ORGAN
PANCREAS	NOT SPECIFIED(MILD)

LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL OF RES SUPP. PATH SERV GP	PATHOLOGY INDIVIDUAL ANIMAL DATA DIVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83009
STUDY START D EST= 256 SEX: FEMALE TUDY DAY OF DEATH: 754	STUDY TYPE: CHRONIC/2 YR C. SACRIFICE STATUS: FINAL SACRIFICE DEATH: 106 TERMINAL BODY WEIGHT: 260.00 (
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	SECONDARY NEOPLASM FROM ORGAN
MANMARY GLANDS	THE MASS IN THE LEFT INGUINAL AREA A MAMMARY ADENOCARCINOMA. Not specified (present) (present)
MOSE/TURBIMATES	CELLULAR INFILTRATE 15 ADJACENT TO NASO-LACRIMAL DUCT. Not specified(Mild)
ADREMAL	MULTI-FOCAL(MILD)
FRES & OPTIC M	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
UNOLE BODY	(PRESENT)
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER, INTESTINE AND PANCREAS. IN MANY AREAS THE NEOPLASTIC CELLS ARE LARGE, BIZARRE AND HIGHLY ANAPLASTIC. IN SOME AREAS THERE APPEARS TO BE ABUNDANT COLLAGEN PRODUCTION AND IN OTHER AREAS THERE IS MATERIAL RESEMBLING OSTEOID. THERE IS ENTRAPPMENT OF ESSENTIALLY NORMAL HEPATOCYTES, BILE DUCT EPITHELIUM, PANCREATIC ACINAR CELLS AND INTESTIMAL EPITHELIUM IN AREAS WHERE THE SARCOMA HAS INVADED LINER, PANCREAS AND INTESTIME.

Appendix	כ	(cont.):	··		PATE	IOTOGX	INDI	VIDUAL	PATHOLOGY INDIVIDUAL ANIMAL DATA	7	ATA				
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATM SERV GP SPECIES: RAT/FISCHER-344		ST	.s Agr	IAR I	DIVIDU STUD DATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY STARI DATE: 23-JAN-84	2 2	EPORT 09	STC	YT YOU	PE: CHR	PR11	NTED: PAGE: YR C/	PRINTED: 21-NOV-89 PAGE: 514 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	
ANIMAL MUMBER: 256/PRETEST= DATE OF DEATH: 14-FEB-86 STUDY DAY OF		256 SEX: FEMALE DEATH: 754	FERA 754	ių.	DOSE STUDY	256 SEX: FEMALE DOSE GROUP: 1 DEATH: 754 STUDY WEEK OF D	DEATHE	ACR1 F1CE	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNIMAL BODY WEIGHT: 260.00 (6MS)	FINAL	SACRIF	1CE 260	8	SACRIFICE STATUS: FINAL SACRIFICE TH: 108 TERMINAL BODY WEIGHT: 260.00 (6MS)	
TISSUE / WISTOPATNOLOGIC FINDINGS		3 7 8 8 1 1 2 1 4 O	-	S &		0 8 8	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SP	T I O N	OBSERVATIONS >>	IALC	OMMENTS			PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	_
DIAPHRAGM MISCELLANEOUS TISSUE -N- PRESENCE OF METASTATIC SARCOMA -COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION						SECON NOT S	MISCELLANEOUS TISSUE SECONDARY MEOPLASM FROM NOT SPECIFIED (PRESENT)	TISSUE PLASM FR (PRESEN	MISCELLANEOUS TISSUE SECONDARY MEOPLASM FROM ORGAN ABDOMINAL CAVITY NOT SPECIFIED (PRESENT)	ABDOM	INAL CA	/1TY			

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
Ξ _	DATA REPORT GLP83009
257 SEX: FEMALE F DEATH: ,	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 293.00 (GMS)
ORGAN NAME CETUODS / PHRASES SEVERITY	T I O N S >> GROSS FREE-TEXT COMMENTS
LIVER GROWTH(S) / MASS(ES) PRESENT PRESENT	2.5CM, WHITE, FIRM, ENCAPSULATED, LOBULATED. 22 DIAPHRAGM, VENTRAL ABDOMINAL WALL, STOMACM. 25CM.
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPARA-FOLLIGULAR CELL, LIGHT CELL)	NOT SPECIFIED(MILD)
EXORBITAL LACRIMACIMAR ATROPHY	FOCAL(TRACE)
MEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEN	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LYMPH MODES	REACTIVE MYPERPLASIA MOTED IN CERVICAL NODE. Mot specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) AULTI-FOCAL(NILD)

UTE OF RESEARCH Serv GP 344 Study Star	DATA REPORT GLP83009
MALE	SACRIFICE STATUS: FINAL SACRIFICE DEATH: 108 TERMINAL BODY WEIGHT: 293.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERNEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MIMERALIZATIONN- PRESENCE OF METASTATIC SARCOMA	MULTI-FOCAL(MODERATE) Secondary Neoplasm from Organ Abdominal Cavity
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
UTERUSENDOMETRIAL STROMAL POLYP	NOT SPECIFIED (PRESENT)
PANCREAS ATROPHY	FOCAL (TRACE)
STOMACH	NOT SPECIFIED (PRESENT) Secondary Meoplasm from Organ
SKELETAL MUSCLE	A FRAGMENT OF THE ANAPLASTIC SARCOMA IS PRESENT ON SLIDE #14 With the skeletal muscle and Sciatic Merve. The Tumor does not Involve muscle or merve tissue. It is an extraneous fragment Probably Picked up on the water bath during histologic Preparation.
MAMMARY GLANDS	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	BILATERAL CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS. Not specified(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M.	

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
257 SEX: FENALE OF DEATH: 754	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 293.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EVES & OPTIC N	FOCAL(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
AD SEBACIOUS TISSUE IS MISSING	TISSUE IS MISSING
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY THE LIVER AND DIAPHRAGM WITH FOCAL INFILTRATION INTO THE WALL OF THE STOMACH. THE NEOPLASTIC CELLS ARE HIGHLY ANAPLASTIC WITH MUMEROUS MEOPLASTIC GIANT CELLS AND LARGE BIZARRE MITOTIC FIGURES.
DIAPMRAGM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDONINAL CAVITY NOT SPECIFIED (PRESENT)

		0	STUDY NUMBER: T DATE: 23-JAN-84	GLP83009	STUDY T	PRINTED: 21-NOV-59 PAGE: 518 Study Type: Chronic/2 yr Carcinogenic	PRINTED: 21-NOV-89 PAGE: 518 C/2 YR CARCINOGENIO
ANIMAL MUMBER: 255, DATE OF DEATM: 14-FEB-86	/PRETEST= 25 STUDY DAY OF D	MALE	DOSE GROUP: 1 SACRI STUDY WEEK OF DEATH: 108	DOSE GROUP: 1 SACRIFICE STATUS: FIMAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 247.00 (GMS)	SACRIFICE STATUS: FINAL SACRIFICE 108 TERNINAL BOOT WEIGHT:	L SACRIFICE JEIGHT: 247.	•
ORGAN MANE	ORGAN NAME ACTUORDS / PHRASES	O B S E	S E R V A T I O N S SEVERITY GROSS FREE	R V A T I O N S VV	·	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 T 1 0 0 0 0 0 0 0 0 0 0
L L CER L CER L C CER SP C C C C C C C C C C C C C C C C C C C	DISCOLORATION ENLARGED (SPLENONEGALY) ADMESION(S) GROWTH(S) / MASS(ES)			5 X 1 X .5CM RIGHT PERITONEAL WALL, DIAPHRAGM. FIRM, WHITE, 1.5CM DIAMETER, RIGHT LATERAL LOBE	DIAPHRAGM. Ieter, Right	LATERAL LOBE	
DUODENUM UTERUS	ADMERED TO LIVER POLYP	PARSEX		ONE LOOP Left Horn, 1cm Long.			
TISSUE / NISTOPATHOLOGIC FINDINGS	COLUMNINGS			OBSERVATIONS DISTRIBUTION (SEVERITY)	/ SPECIAL COMMENTS	COMMENTS	
TWYROID GLANDSPARA-FOLLICULAR CI -COLLOID CYST(S)	WYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C" CELL, I -COLLOID CYST(S)	CELL, LIGHT CELL)	: TOM TOM	SPECIFIED (TRACE) Specified (Present)			
EXORBITAL LACRIM ACIMAR ATROPHY			_	MULTI-FOCAL(MODERATE)			
NEART			NOT SPE	NOT SPECIFIED(MILD)			
LUNGS	UNGS	METASTATIC	NOT SPEC (PRESENT)	NOT SPECIFIED(TRACE) PRESENT)			
SPLEEK	PLEEK	METASTATIC	(PRESENT)	2			
LYMPN NODESRED BLOOD CEELS, I	-RED BLOOD CEELS, WEWOSIDERIM AND/OR ERYTHROPI MEDULLARY SINUSES	YTHROPHAGOCYTOSIS WITHIN		ABUNDANT PIGMENT. PRESENT IN MEDIASTINAL MODES MOT SPECIFIED (PRESENT)	T IN MEDIASI	THAL HODES.	

J (cont.): P. INDI	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAM-84
RETEST 258 SEX: FEMALE STUDY DAY OF DEATH: 754	SACRIFI DEATH: 108
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT)
-BILE DUCTULE EPITMELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -MEDATOCYTIC DECEMBRATIVE CHANGES (NOM-NEPROTIC)	NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (MILD)
- MECROSIS, MEPATORYTIC, INDIVIDUAL CELLS - ME A PROGRESS - METASTATIC	- 4
-MEPATOCYTE COALESCING MCROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED (TRACE)
-N- PRESENCE OF METASTATIC SARCOMA	SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
UTERUS	NOT SPECIFIED (PRESENT) MOT SPECIFIED (PRESENT)
DUODENUM	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED(TRACE)
MANMARY GLANDS	MOT SPECIFIED(TRACE) MOT SPECIFIED (PRESENT)
ADRENAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	

OF RESEARCH	DATA REPORT GLP83009
STRUES: MAI/FISCHEM-544	-JAM-84 STUDY TYPE: CHROMIC/2 YR CARCINGGEMIC
	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 247.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	FOCAL(TRACE) WOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. MEOPLASTIC CELLS ARE PRODUCING LARGE AMOUNTS OF EITHER COLLAGEN OR OSTEOID MATRIX.
DIAPHRAGM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY NOT SPECIFIED (PRESENT)

<u> </u>	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/
261 SEX: FEMALE OF DEATH: 754	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 271.00 (GMS)
C G R O S S O R G A M O B S E R V A KEYWORDS / PHRASES SEVERITY	T 1 O N S >> GROSS FREE-TEXT COMMENTS
SKIN SUBCUTANEOUS MASS PRESENT L LIVER ADNESION(S) PRESENT C GROUTH(S) / MASS(ES) PRESENT C	LEFT THORAX, 3 X 3 X 2CM. DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINE. CLITORAL GLAND, 2 X 1CM.
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID TI	TISSUE IS MISSING
MEARTCARDIONYOPATNY	NOT SPECIFIED(TRACE)
LUNGS	
LYAPE MODES	RBC'S AND PIGMENT NOTED IN CERVICAL NODES. RBC'S, PIGMENT AND REACTIVE HYPERPLASIA PRESENT IN MEDIASTINAL
NO -RED BLOOD CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN NO MEDULLARY SINUSES	NODES. Not specified (present)
	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NOT	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
	MOT SPECIFIED (MILD)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
STUDY START	DATA REPORT GLP83009
261 SEX: FEMALE DEATH: 754	1 SACRIFICE STA DF DEATH: 108 TERMI
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
DUODEMUMCOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT)
SKIN	(PRESENT)
MANMARY GLANDS	THE SUBCUTAMEOUS MASS ON THE LEFT THORAX IS A MAMMARY
-WYPERPLASIA AMD/OR MYPERTROPHY OF THE ACIMAR TISSUE -B- FIBROADENOMA	FIBROADENOMA. Not specified (moderate) (preseut)
ASIA) OF DUCTS AND DUCTULES	NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCT. Not specified(MILD)
ADRENAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
THORAX	MISCELLANEOUS TISSUE THE SUBCUTANEOUS MASS ON THE LEFT THORAX IS A MAMMARY FIBROADENOMA. THIS DIAGNOSIS IS CODED UNDER MAMMARY GLAND.
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

		•			
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	OF RESEARCH RV GP	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL STUDY NUMBER: T DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CA	03-JAN-90 1 RCINOGENIC
ANIMAL NUMBER: 262/PRETEST= DATE OF DEATH: 21-JAN-86 STUDY DAY OF	PRETEST. STUDY DAY OF	262 SEX: FEMALE DEATH: 730	DOSE GROUP: STUDY WEEK	1 SACRI DEATH: 105	
CRGAN NAME EYES & OPTIC N. EYES & OPTIC N. EYES & OPTIC N. FLUID-FILLED PERITONEAL CAV. FLUID-FILLED GROWTH(S) / MASS LIVER GROWTH(S) / MASS OVARIES PARA-OVARIAN PITUITARY GLAND ORGANIAN DISCOLORATION PITUITARY GLAND		0		T I ON S >> GROSS FREE-TEXT COMMENTS LEFT, RED 53ML, RED 53ML, RED FOUR .23CM DIAMETER, WHITE, WITHIN MESENTERY EXTREMELY PALE FIRM, WHITE, IRREGULARLY SHAPED 1CM DIAMETER, YELLOW FLUID FILLED, LEFT FOCAL, RED, .2CM DIAMETER	
TISSUE / MISTOPATHOLOGIC FINDINGS	M I C R O S C O P I FINDINGS	S S I I 3	SUE	0 B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	•
SQ			:	TISSUE IS AUTOLYTIC	•
PARATHYROLD	: :			TISSUE IS AUTOLYTIC Not specified(MILD)	
SPLEEM	01ES1S		:	NOT SPECIFIED (PRESENT)	
LYMPH NODES	TIC SARCOMA			METASTATIC OSTEOSARCOMA PRESENT IN MESENTERIC LYMPH NODES Secondary Neoplasm from Organ	ċ
LIVER	MMATORY REACTION TIC SARCOMA		•	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MODERATE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY	
OVARIES			:	NOT SPECIFIED (PRESENT)	

DATA
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PATHOLOGY
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Appendix

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 F DATE: 23-JAN-90 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
262 SEX: FENALE OF DEATH: 730	1 SAC F DEATH: 10
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SCIATIC MERVE	TISSUE IS MISSING
MANMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	BECAUSE OF AUTOLYTIC CHANGES, THE RETINA CANNOT BE EVALUATED
-CORNEAL MINERALIZATION -CORNEAL VASCULARIZATION -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	MISIOLOGICALLY. NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
ABDONINAL CAVITY	MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER. THERE IS ABUNDANT OSTEOID PRODUCTION AND MUCH OF THE OSTEOID IS MINERALIZED. CELLULAR DIFFERENTIATION IS PRIMARILY THAT OF OSTEOSARCOMA.
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

INDI STUDY START DA	DATA REPORT GLP83009
263 SEX: FEMALE DO OF DEATH: 725 ST	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 248.00 (GMS)
C G R O S S O R G A N O B S E SEVEINE SE SEVEINE SE SEVEINE SE SEVEINE SE SEVEINE SE SEVEINE SE SEVEINE SE SEVEINE SE SE SE SE SE SE SE SE SE SE SE SE SE	R V A T I O N S >> RITY GROSS FREE-TEXT COMMENTS ENT FIRM, WHITE, 2.5 X 2CM, NEAR ANUS ENT DIAPHRAGM, VENTRAL ABDOMINAL WALL
A HICROSCOPIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED (MODERATE)
SPLEER CHRONIC	NOT SPECIFIED(MODERATE)
LYMPH MODES	RBC'S AND HEMOSIDERIN PRESENT IN MEDIASTINAL NODE ONLY. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGM HYPERPLASIIC NODULE(S)	MOT SPECIFIED (PRESENT) HULTI-FOCAL(TRACE) MULTI-FOCAL(MODERATE) FOCAL(TRACE)
FROGRESSIVE REMAL DISEASE	MOT SPECIFIED (MODERATE)
ILEUMCOMPOUND RELATED INFLAMMATORY REACTION -WUCOSAL EROSIOM/ULCERATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)

J (cont.): IND STUDY START D	INDIVIDU DATA REPORT GLP83009
FEMALE 725	
UE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	FOCAL (TRACE)
RECTUM	(PRESENT)
	THE INGUINAL SUBCUTANEOUS TISSUE IS THE PROBABLE PRIMARY SITE OF THIS SARCOMA. NO TEST COMPOUND WAS OBSERVED IN HISTOLOGIC SECTIONS OF THIS LESION. THE HISTOLOGIC DIFFERENTIATION OF THIS
-N- FIBROSARCOMA	MEGPLASM IS FIBROSARCOMA.
MANMARY GLAMDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRTATE IS LOCATED IN THE VENTRO-LATERAL ASPECT Of the Wasal Cavity. Not specified(trace)
ADREMAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NUMEROUS PROCESSING ARTIFACTS MAKE DETAILED HISTOLOGIC EVALUATION IMPOSSIBLE.IFACTS MAKE DETAILED HISTOLOGIC NOT SPECIFIED(TRACE)
DIAPHRAGH	MISCELLANEOUS TISSUE Not specified (present)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCNER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL A DATA REPORT GLP83009
264 SEX: FEMALE F DEATH: 653	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 94 TERNINAL BODY WEIGHT: 230.00 (GMS)
ROSS ORGAN	
UTERUS POLYP LIVER ADMESTON(S) / MASS(ES) PRESENT LIVER GROWTH(S) / MASS(ES) PRESENT	RIGHT HORN, 2 X 1CM DIAPHRAGM, VENTRAL ABDOMINAL WALL, INTESTINES, STOMACH FIRM, WHITE, INVOLVES 3/4 OF THE LIVER
C M I C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED (MILD)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEN	WOT SPECIFIED (PRESENT)
LYMPH NODESRENOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	REACTIVE HYPERPLASIA, RBC'S AND PIGMENT PRESENT IN MESENTERIC MODES. NOT SPECIFIED (PRESENT)
MEDULLARY SIMUSES -Reactive Hyperplasia	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -NECROSIS, PERIACINAR -NNECROSIS, PERIACINAR	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MODERATE) MULTI-FOCAL(TRACE) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
UTERUS STROMAL POLYP	NOT SPECIFIED (PRESENT)
JEJUNUM	

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	
264 SEX: FENALE DEATH: 653	DOSE GROUP: 1 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 94 TERMINAL BODY WEIGHT: 230.00 (GMS)
« •	OSSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
JEJUNUM	SECONDARY NEOPLASM FROM ORGAN
RECTUM	TISSUE IS MISSING
BONE, STERNUM	TISSUE IS MISSING
ADREMAL	NOT SPECIFIED(TRACE)
EYES & OPTIC M	TISSUE IS MISSING NUMEROUS ARTIFACTS INDUCED DURING PROCESSING MAKE HISTOLOGIC EVALUATION OF EYES IMPOSSIBLE.
MEDIASTINUM	MISCELLANEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
ABDOMINAL CAVITY	MISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER, DIAPHRAGM AND SMALL INTESTIME. CELLULAR ARRANGEMENT AND MORPHOLOGY ARE TYPICAL OF FIBROSARCOMA.
DIAPHRAGM	MISCELLANEOUS TISSUE Secondary Neoplasm from Organ Abdominal Cavity Not Specified (Present)

	COCC THAT ALLOW ANTHUM DAIN
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIM SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2
/PRETEST= 265 SEX: FEMALE STUDY DAY OF DEATH: 754	·
ES AN OB	
LIVER ADHESION(S) PRESENT PITUITARY GLAND ENLARGED PRESENT	T SMALL INTESTINE, VENTRAL ABDOMINAL WALL, DIAPHRAGM. T .5CM DIAMETER. 6 DARK RED
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O K S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MILD)
LUMGSMINERALIZATION OF PULMONARY ARTERIES -PNEUMONIA, INTERSTITIAL, CHRONIC	NOT SPECIFIED(TRACE) FOCAL(TRACE)
SPLEEN	HULTI-FOCAL(MILD) NOT SPECIFIED (PRESENT)
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	RBC'S AND REACTIVE HYPERPLASIA NOTED IN CERVICAL NODE. PIGMENT PRESENT IN MEDIASTINAL NODE AND DILATED SINUSOIDS NOTED IN MESENTERIC NODE.
-REACTIVE HYPERPLASIA -Dilated and/or cystic medullary sinuses	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -HEPATOCYTIC VACUOLIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NULTI-FOCAL(WILD) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)

(cont.): IN STUDY START	PATBOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 T DATE: 23-JAN-84
265/PRETEST= 265 SEX: FEMALE 4-FEB-86 STUDY DAY OF DEATM: 754	DOSE GROUP: 1 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 256.00 (GMS)
718SUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
LIVERNEPATOCYTIC, INDIVIDUAL CELLS	MULTI-FOCAL(TRACE)
PROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
UTERUS	NOT SPECIFIED (PRESENT)
JEJUNUM	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
COLOM	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	WOT SPECIFIED(MODERATE) WOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESEMT)
DIAPHRAGM	MISCELLAMEOUS TISSUE NOT SPECIFIED (PRESENT)

ORGAN MAME C G R O S S O R G A N O B S E R V A T I O N S >> KEYWGADS / PHRASES SEVERITY GROSS FREE-TEXT COMMENTS LIVER ADMESION(S) PRESENT STOMACH, DIAPHRAGM, LEFT PERITONEAL WALL. JEJUNUM ADMERED TO LIVER. PRESENT DARK, .3CM DIAMETER
C T I S S U E O B S E R V A T I O N S >> TISSUE / NISTOPATHOLOGIC FINDINGS
EART
PLEENFIBROSIS CAPSULAR
YMPH NODES
COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED (TRACE) -HEPATITIS -HEPATITIS -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NOT SPECIFIED (MODERATE) -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NOT SPECIFIED (MODERATE)
IDNETPROGRESSIVE RENAL DISEASE
EJUNUM
ERYTHROPHAGOCYTOSIS WITHIN BN AND/OR CHOLANGIOFIBROSIS (FATTY) CHANGE LEADING TO

DATA
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Appendix J

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
UTE OF RESEARCH SERV GP 344 STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL WUMBER: 266/PRETEST= 266 SEX: FEMALE DOSE GROUP: 1 DATE LIF DEATH: 14-FEB-86 STUDY DAY OF DEATH: 754 STUDY WEEK OF	SACR DEATH: 108
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PAMCREAS	FOCAL (TRACE)
STOMACH	NOT SPECIFIED (PRESENT)
SKIN TISSUE IS MISSING	TISSUE IS MISSING
MAMMARY GLANDS	MANMARY DIAGOSIS TAKEN FROM SLIDE #4. NO SKIN OR MAMMARY TISSUE Was submitted for block #15. Not specified(trace)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
ADREMAL	FOCAL(TRACE) Multi-focal(Trace)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED(TRACE)
DIAPHRAGM	MISCELLAMEOUS TISSUE NOT SPECIFIED (PRESENT)

LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	Appendix Letterman army institute of research species: rat/fischer-344	J (cont.):	DIVIDUAL ANI TA REPORT P83009	ANIMAL DATA PRINTED: 21-NOV-89 PAGE: 535 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: DATE OF DEATH:	ANIMAL NUMBER: 267/PRETEST= Date of Death: 10-May-85 study day o		UP: 1 SACRIFICE STATU EK OF DEATH: 68 TERNIMA	SACRIFICE STATUS: SACRIFICED MORIBUND 68 TERMINAL BODY WEIGHT; 243.00 (GMS)
	CC GROSS / PHR/	O R G A M O B	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS	·····································
SPLEEN	ENLARGED (SPLENGROUTH(S) / MAS	ENOMEGALY) NSS(ES)	MODERATE 6 X 1,5 X 1CM PRESENT THREE FIRM WHITE ROUND NODULES ATTACHED TO CAPSULE,	ES ATTACHED TO CAPSULE,
OVARIES LIVER SM INTESTINE STOMACH	PARA-OVARIAN CY GROWTH(S) / MAS ADHERED TO MASS ADHERED TO MASS	ST(S)	Z-SMM DIAMETER PRESENT FILLED WITH CLEAR YELLOL FLUID, 1CM DIAMETER PRESENT FIRM, WHITE, MULTINODULAR, 4CM DIAMETER. PRESENT	ID, 1CM DIAMETER CM DIAMETER.
TISSUE / MISTOPATHOLOGIC FIN	TISSUE / MISTOPATHOLOGIC FINDINGS	8 1 1 3 1 4 0	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SP	/ SPECIAL COMMENTS
HEART	OMYOPATHY		NOT SPECIFIED(TRACE)	
LUNGS	UNGS	A, METASTATIC	(PRESENT)	
SPLEEN -N- LARGE GRAN -N- PRESENCE O	PLEEN	A, METASTATIC		N ABDOMINAL CAVITY
LYMPN NODES -RED BLOOD CEELS, NEW MEDULLARY SINUSES -N- LARGE GRANULAR LY-REACTIVE HYPERPLASIA	*** *** *** *** *** *** *** *** *** **	ERYTHROPHAGOCYTOSIS WITHIN A, METASTATIC	: ~	RBC'S AND REACTIVE HYPERPLASIA NOTED IN MEDIASTINAL MODES. Not specified (present) Present) Not specified (present)
-COMPOUND RELA -COMPOUND RELA -BILE DUCTULE -NEPATOCYTIC D	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITMELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -M-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	ON AND/OR CHOLANGIOFIBROSI N-NECROTIC) A, METASTATIC	NOT SPECIFIED (PRESENT) OSIS NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD) (PRESENT)	

LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DIV OF RES SUPP. PATH SERV GP STUDY STAT/FISCHER-344 SPECIES: RAT/FISCHER-344	OGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT NUMBER: GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
267 SEX: FEMALE F DEATH: 474	1 SACRIFICE STATUS: SACRIFICED OF DEATH: 68 TERMINAL BODY WEIGHT:
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S ->- DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
LIVER	SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY
KIDMEYPROGRESSIVE REMAIL DISEASE	NOT SPECIFIED(TRACE)
URINARY BLADDER	(PRESENT)
OVARIESPARA-OVARIAN CYST(S)	NOT SPECIFIED (PRESENT)
STOMACH	NOT SPECIFIED (PRESENT)
SKIN	(PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD) Not specified (Present)
MOSE/TURBINATES	THE INFLAMMATORY CELL INFILTRATE INVOLVES MASO-LACRIMAL DUCTS
-MIXED INFLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, Turbinates, Maso-Lacrimal Ducts	NOT SPECIFIED(MILD)
BONE, FEMUR	NOT SPECIFIED (PRESENT)
ADRENAL	(PRESENT)

Appendix J (cont.): PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY START DA	DATA REPORT GLP83009 Study Type: Chro
TEST 268 SEX: FEMALE STUDY DAY OF DEATH: 642	EK OF
C G R O S S O R G A R O B S E KEYWORDS / PHRASES SEV	R V A T I O M S >> ERITY GROSS FREE-TEXT COMMENTS
LIVER ADMESTOM(S) PRESENT PITUITARY GLAND EMLARGED	T DIAPHRAGM
CROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TMYROID GLANDS	NOT SPECIFIED(MILD)
MEARTCARDIONYOPATHY	 Not specified(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEK	NOT SPECIFIED(TRACE)
LYMPH NODESREMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MENILLARY CHARGE	REACTIVE HYPERPLASIA, RBC'S AND PIGMENT PRESENT IN CERVICAL AND MEDIASTINAL NODES NOT SPECIFIED (PRESENT)
	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -REPATITIS -PERIPORTAL HOWONUCLEAR CELLULAR INFILTRATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE)
PROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)

INSTITUTE OF RESEARCH , PATH SERV GP SCHER-344 STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
268 SEX: FEMALE F DEATH: 642	DEATH:
A MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	MAMMARY TISSUE NOT PRESENT IN SECTION #15. DIAGNOSES WERE BASED ON OBSERVATIONS OF MAMMARY TISSUE ADJACENT TO THE RECTUM IN SECTION #13. NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (MILD) NOT SPECIFIED (TRACE) NOT SPECIFIED (MILD)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344 STUDY STATY STATY DATE: 23-JAN-84	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
9 SEX: FENALE EATH: 534	DOSE GROUP: 1 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 77 TERMINAL BODY WEIGHT: 227.00 (GMS)
ORGAN WAME KEYNORDS / PHRASES SEVERITY	A T I O N S >> GROSS FREE-TEXT COMMENTS
EYES & OPTIC M. STAINED NAIR PRESENT LIVER ADMESTION(S)	RED PICKENT DIAPHRAGE
L CAVITY HEMOTHROAX	FIRM, While, 3 X 4CH, EXTENDS INTO THORAX, MULTIPLE FIBROUS NODULES. 1/3 FULL
WHOLE BODY FOSSIBLE MECHANICAL INJURY PRESENT	3 X . 7CM
TISSUE / MISTOPATMOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	TISSUE IS MISSING
SALIVARY GLAND	. TISSUE IS MISSING
EXORBITAL LACRIM	TISSUE IS MISSING
MEARTCARDIOMYOPATHY	NOT SPECIFIED (TRACE)
SPLEEN	NOT SPECIFIED (PRESENT)
LYMPH MODESRED BLOOD CEELS, MEMOSIDERIM AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SIMUSES	. REACTIVE HYPERPLASIA PRESENT IN MESENTERIC NODES. RBC'S AND Pighent present in Mediastinal Node. Not specified (present)
-REACTIVE HYPERPLASIA	NOT SPECIFIED (PRESENT)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION	NOT SPECIFIED (PRESENT)

Appendix	J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCNER-344	INDI STUDY START DA	VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCIKOGENIC
ANIMAL NUMBER: 269/PRETEST= DATE OF DEATH: 09-JUL-85 STUDY DAY	269 SEX: FEMALE OF DEATH: 534	SACRIFICE STA
TISSUE / MISTOPATHOLOGIC FINDINGS		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER		MULTI-FOCAL(TRACE) SECONDARY NEOPLASH FROM ORGAN ABDOMINAL CAVITY
KIDNCYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(TRACE)
URIMARY BLADDER		TISSUE IS MISSING
RECTUM		TISSUE IS MISSING
BORE, STERRICK		TISSUE IS MISSING
EYES & OPTIC N	MERALIZATION, SCLERA	NOT SPECIFIED (PRESENT)
ABDOMINAL CAVITY	UNSPECIFIED	HISCELLANEOUS TISSUE THE SARCOMA INVOLVES PRIMARILY LIVER AND DIAPHRAGM. CELLULAR MORPHOLOGY AND ARRANGEMENT ARE TYPICAL OF FIBROSARCOMA. THERE ARE MUMEROUS MITOTIC FIGURES, SOME OF WHICH ARE LARGE AND BIZARRE. THERE ARE ALSO MUMEROUS INDIVIOUAL MEOPLASTIC CELLS UNDERGOING NECROSIS.
DIAPHRAGH		MISCELLAMEOUS TISSUE SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
pendix J

LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP. PATM SERV GP	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	-	NDIVIDUAL STUDY N	DATA REPORT GLP83009
SPECIES: RAT/FISCHER-344	CKER-344	STUDY STAR	T DATE: 23-JAN-84	JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ANIMAL NUMBER: 270 DATE OF DEATH: 08-JUL-85	Ä.	EMALE 3	DOSE GROUP: 1 STUDY WEEK OF	SACRIFICE EATH: 77 TE
ORGAN NAME	KEYLORDS / PHRA	5	S E R V A SEVERITY	SER VATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS
KIDNEY	DISCOLORATION ADHESION(S)	}	PRESENT PRESENT PRESENT	CHOCHOLATE BROWN ABDOMINAL WALL DIAPHRAGM, VENTRAL ABDOMINAL WALL, STOMACH, INTESTINES
LIVER	MODULE(S) C M I C R O S HOLOGIC FINDINGS		PRESENT	MULTIPLE, FIRM, RED AND WHITE, .5-1CM DIAMETER OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	EART		•	NOT SPECIFIED (TRACE)
LUNGS	UNGSPREUMONIA, INTERSTITIAL, CHRONIC			NOT SPECIFIED(MILD)
THYMUS				TISSUE IS MISSING
SPLEEM	GE GRAWULAR LYMPHOCYTE LEUKEMIA, METASTATIC EDULLARY MEMATOPOIESIS	IA, METASTATIC		LGLL IS IN ITS INITIAL STAGES AND IS CONFINED TO THE MARGINAL ZONE AT THE PERIPHERY OF SPLENIC CORPUSCIÉS. EXTENSIVE EXTRAMEDULLARY HEMATOPOIESIS IS PRESENT IN RED PULP AREAS. (PRESENT)
LYMPH HODES	PLASIA		•	REACTIVE HYPERPLASIA IS MARKED IN CERVICAL AND MESENTERIC NODES. Not specified (present)
LIVER -COMPOUND RELATED INFLAMMATORY -BILE DUCTULE EPITHELIAL HYPER -NEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S) -M- HEPATOCELLULAR CARCINOMA	-COMPOUND RELATED INFLAMMATORY REACTION-BILE DUCTULE EPITHELIAL HYPERPLASIA AN-HEPATOCYTIC VACUOLIZATION-BENIGN MYPERPLASTIC NODULE(S)-M- HEPATOCELLULAR CARCINOMA	AND/OR CHOLANGIOFIBROSIS	•	NOT SPECIFIED (PRESENT) NOT SPECIFIED(HILD) NOT SPECIFIED(HILD) NOT SPECIFIED(TRACE)
			•	

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84	NIMAL DATA PRINTED: 21-NOV-89 PAGE: 543 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
TEST 270 SEX: FEMALE DOSE GROUP: 1 STUDY DAY OF DEATH: 533 STUDY WEEK OF DEATH:	TUS: SACRIFICED MORIBUND MAL BODY WEIGHT: 241.00 (GMS)
C T I S S U E O B S E R V A T I O N S V T I S S U E O B S E R V A T I O N S V T I CHMENTS TISSUE / MISTOPATHOLOGIC FINDINGS	A T 1 O N S >> (SEVERITY) / SPECIAL COMMENTS
ILEUM	RGAN LIVER
MAMMARY GLANDS	
MOSE/TURBINATES	VES MASO-LACRIMAL DUCT.
WMOLE BODYTHE LARGE GRANULE LYMPHO IN ITS INITIAL STAGES AN PROCYTIC LEUKEMIA (PRESENT)	THE LARGE GRANULE LYMPHOCYTE LEUKEMIA (LGLL) IN THIS ANIMAL IS IN ITS INITIAL STAGES AND IS CONFINED TO THE SPLEEN. (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED IMFLAMMATORY REACTION -W. PRESENCE OF METASTATIC MEOPLASM	RGAN LIVER

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL AND
/PRETEST# 271 SEX: FEMALE STUBY DAY OF DEATH: 732	STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: 234.00 (GMS)
R G A R O S S S ES	T I O N S >> GROSS FREE-TEXT COMMENTS
LIVER ADMESTON(S) PRESENT LUNGS CONGESTED / RED PRESENT	DIAPHRAGM
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	TISSUE IS AUTOLYTIC
PARATHYROID	TISSUE IS MISSING
HEART	NOT SPECIFIED(MILD)
LUMGS	NOT SPECIFIED (PRESENT) DIFFUSE (PRESENT)
LYMPH HODES	RBC'S AND PIGMENT PRESENT IN CERVICAL AND MEDIASTINAL NODES. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
MAMMARY GLÁNDS	NOT SPECIFIED(MILD) Not specified (present)

	'n	J (cont.):	t.)	••	PAI	PATHOLOGY INDIVIDUAL ANIMAL DATA		NOIV	ZDQI/	7	MIN	J D	ATA				
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		S	ruby	STAR	INDIVI SI T DATE	INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAM-84	IMAL Ber: M-84	DATA RIGLP630	EPORT 09		STU	DY TY!	PE: CHA	PRII F ONIC/2	NTED: 21-	PRINTED: 21-NOV-89 PAGE: 545 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	<u>a</u> 2
		271 SEX: FEMALE OF DEATH: 732	FEH 732	ALE	:	: 37	- "P	S. EATH:	ACR 1 F 1	CE ST.	SACRIFICE STATUS: FOUND DEAD TH: 105 TERMINAL BODY WEIGHT	FOUND ODY WI	DEAD EIGHT:	234.	234.00 (GMS)	234.00 (GMS)	;
X L	0	5	-		3 D S	:	STRIS	N V A	T I C	K S	/ SPEC	IAL CC	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	:	•		:
NOSE/TURBINATES	, NAS	AL CA	VIII	311	IUSES,	•	LLULAI T SPE(CELLULAR INFILTRATE INV Not Specified(Moderate)	LTRATE (MODER	1NVO	LVES N	AS0-L/	ICR I MAL	DUCTS.	_		
ADREMAL				:		ON	NO X	ADREN	NAL AV	AILABI	LE FOR	HISTO), 0G1C	EXAMINA	T10W.		
-COMPOUND RELATED INFLAMMATORY REACTION	:			:	•	ON NOT SPECIFIED (PRESE	SCELL/	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	TISSU (PRES	ENT)							

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
	DATA REPORT GLP83009
284 SEX: FEMALE DEATH: 722	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 310.00 (GMS)
<pre><< GROSS ORGAN OBSERVA KEYWORDS / PHRASES SEVERITY</pre>	T T O N S >> GROSS FREE-TEXT COMMENTS
SKIN SUBCUTANEOUS MASS PRESENT SPLEEN ENLANGED (SPLENOMEGALY) MILD	FIRM, WHITE, 5 X 4.5 X 4CM
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	TISSUE IS MISSING
PARATHYROID	TISSUE IS MISSING
HEART	NOT SPECIFIED(MODERATE)
LUNGS	NOT SPECIFIED(TRACE)
SPLEEN	(PRESENT)
LYMPN NODES	REACTIVE HYPERPLASIA HOTED IN CERVICAL NODES. RBC'S AND PIGMENT NOTED IN MEDIASTINAL NODES AND IN SEVERAL SMALL MESENTERIC NODES ADJACENT TO THE PANCREAS IN SECTION #12. NOT SPECIFIED (PRESENT)
	NOT SPECIFIED (PRESENT)
LIVER	FOCAL(TRACE) NOT SPECIFIED (PRESENT) (PRESENT)
KIDMEY	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY ITPE: CHRONIC/2 YR CARCINOGENIC
284 SEX: FEMALE OF DEATH: 722	- 30
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE REWAL DISEASE	MOT SPECIFIED(TRACE)
-M- FIBROSARCOMA	THERE IS A LARGE ANAPLASTIC FIBROSARCOMA IN THE LEFT AXILLARY AREA. THERE IS NO SARCOMA IN THE ABDONINAL CAVITY OF THIS RAT. NO TEST MATERIAL WAS OBSERVED IN THE AREA OF THE NEOPLASM. ALL INDICATIONS ARE THAT THE PRIMARY SITE TO THIS LESION IS THE SUBCUTIS OF THE LEFT AXILLARY AREA.
MANMARY GLANDS TISSUE IS MISSING	TISSUE IS MISSING
EYES & OPTIC M	ONE EYE CANNOT BE EVALUATED BECAUSE OF SEVERE ARTIFACT.
WHOLE BODY	. (PRESEMT)

J (cont.): P. INDI STUDY START DA	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
RETEST 285 SEX: FEMALE STUDY DAY OF DEATH: 612	SACRIFICE STATU F DEATH: 86 TERMINA
C G B O S S O R G A N O B C A K EVUORDS / PHRASES	T I O M S >>
LIVER ADDESION(S) URIMARY BLADDER BLOOD WITHIN LUMEN PRESENT PERITONEAL CAV. GROWTH(S) / HASS(ES) PRESENT WHOLE BODY PAT PRESENT	FILED MATERIAL FILED WITH RED FLUID AND DARK RED CLOTTED MATERIAL FIREM, WHITE, 3 X 2.5CM, INGUINAL REGION, INCORPORATES THE DESCENDING COLON, RECTUM AND URINARY BLADDER.
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	WOT SPECIFIED (TRACE)
EXORBITAL LACRIM	TISSUE IS MISSING
HEART	NOT SPECIFIED(TRACE)
LYMPM WODES	RBC'S PRESENT IN MEDIASTINAL NODE. ONLY A SMALL AMOUNT OF MESENTERIC LYMPH NODE TISSUE IS PRESENT.
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
RECTUM	THE SARCOMA IS PRESENT ONLY IN PERI-RECTAL MUSCLE.

PATHOLOGY INDIVIDUAL ANIMAL DATA		DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 88 TERMINAL BODY WEIGHT: 201.00 (GMS)	OBSERVATIONS V		NOT SPECIFIED (PRESENT)		MISCELLANEOUS TISSUE
IVID	A REPOI 83009	SACR E: 88	V A T DN (SEV	DCATED CAVITY 4A.	1ED (PR	Ĝ.	SIL SO
INI	AL DAT	. ¥	S E R	THE MASS LOCA Abdominal Cav Fibrosarcoma. Present)	PEC1F1	DIFFUSE(MILD)	LLANEC
LOGY	INDIVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLPB3009 STUDY START DATE: 23-JAN-84	DOSE GROUP: 2 STUDY WEEK OF (THE MASS ABDOMINA FIBROSAR (PRESENT)		_	MISCELLANEOUS TISSUE
ATHO	STUDY STUDY ITE: 23	TUDY 1	ш		TULES		:
ρi	IND!	1 1 1	OPIC TISSUE				:
:: ::	DY ST.	285 SEX: FEMALE F DEATH: 612	-	•			
(cont.):	STU	285 SEX: FEP DEATH: 612	ن ن				:
<u>ت</u>	!	285 F DEA	9 0	•	TULES		
_	5			•	D DUC		101101
Appendix	LETTERNAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 265/PRETEST= DATE OF DEATH: 25-SEP-85 STUDY DAY (A H I C R O S C	: BROSARCOMA	-DILATATION (ECTASIA) OF DUCTS AND DUCTULES	ADREWAL	IAPRRAGM
App	E OF	285/PRETEST= P-85 STUDY	F. 2		F DUC		MAATO
	LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATM SERV GP SPECIES: RAIVFISCMER-344	28 SEP - 85	TISSUE / NISTOPATROLOGIC FIRDINGS		(VI		30
	PP, P	. 25-	OPATHO	COMA	S		4160
	ETTERMAN ARMY INS IV OF RES SUPP, P PECIES: RAT/FISCH	ANIMAL NUMBER: Date of Death:	H I S I	KIN	LAND	9	- 6
	DE RICIES:	MA: E OF) ans	-	IARY (DRENAL	DIAPHRAGH
	LET D1V SPE(DAT	1151	SK IN	MAM.	ADRE -L1	PIAP.

DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 293.00 (GMS) ER V A T I O M S >> VERITY GROSS FREE-TEXT COMMENTS ESENT YORARAL ABDOMINAL WALL ESENT FOCAL, MULTIPLE, .12CM DIAMETER, WHITE ESENT FOCAL, MULTIPLE, .12CM DIAMETER, WHITE ESENT FOCAL, MULTIPLE, .12CM DIAMETER U. E. O B S E R V A T I O M S >> U. E. O B S E R
REE-TEXT COMMENTS ABDOMINAL VALL MULTIPLE, .12CM DIAMETER, WHITE RED, .2CM DIAMETER R V A T I O N S >> UTION (SEVERITY) / SPECIAL COMMENTS CIFIED(MILD) CIFIED(TRACE) E HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES.
ABDOMINAL WALL MULTIPLE, .12CM DIAMETER, WHITE RED, .2CM DIAMETER RED, .2CM DIAMETER RED, .12CM DIAMETER, WHITE RED, .12CM DIAMETER,
R V A T I O N S >> UTION (SEVERITY) / SPECIAL COMMENTS CIFIED (MILD) CIFIED (TRACE) E HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES.
CIFIED(MILD) CIFIED(TRACE) E HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES
CIFIED(TRACE) E HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES.
E HYPERPLASIA NOTED IN CERVICAL AND MEDIASTINAL NODES.
NOT SPECIFIED (PRESENT)
MULTI-FOCAL(MODERATE) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD) NOT SPECIFIED(MODERATE)
SPECIFIED(MILD)
MULTI-FOCAL(MILD)
SPECIFIED(MILD) Specified (Present)
OCAL(MODO CIFIED (MIL CIFIED (MIL OCAL (MILL CIFIED (M

Appendix J (cont.): PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA
ART ART	<u> </u>
286 SEX: FEMALE OF DEATH: 747	ROUP: 2 SACRIFI WEEK OF DEATH: 107
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MOSE/TURBINATES	
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	MOT SPECIFICATION

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
T DA	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR
287 SEX: FEMALE D DEATH: 747 S	: =
CC GROSS ORGAN OB	
LIVER ADMESSION(S) PITUITARY GLAND DISCOLORATION PRESENT EYES & OPTIC N. LENS CATARACT	DIAPHRAGM, ABDOMINAL WALL. DARK RED.
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
EXORBITAL LACRIM	. NOT SPECIFIED(TRACE)
HEARTCARDIONYOPATHY	NOT SPECIFIED(TRACE)
LYMPH MODES	. REACTIVE HYPERPLASIA NOTED IN CERVICAL AND MESENTERIC NODES. Not specified (present)
LIVER -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -BENIGN HYPERPLASTIC NODULE(S) -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	. NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED(TRACE)
UTERUSENDOMETRIAL STROMAL POLYP	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SECIES. BATASISCHER. 32.	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 FAGE: 545
/PRETESTS 287 SEX: FEMALE STUDY DAY OF DEATH: 747	SACRIFICE STATU DEATH: 107 TERMINA
A M I C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	0 B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS	NOT SPECIFIED (PRESENT)
OVARIESFOLLICULAR CYST(S)	NOT SPECIFIED (PRESENT)
PANCREAS	NOT SPECIFIED(MILD)
SKELETAL MUSCLE TISSUE IS MISSING	TISSUE IS MISSING
SCIATIC NERVE TISSUE IS MISSING	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE NOTED ADJACENT TO MASO-LACRIMAL DUCTS. Not specified(trace)
ADREMAL	FOCAL (TRACE)
PITUITARY GLAND	TISSUE IS MISSING

LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH Study star	DIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Date: 23-jan-84	PRINTED: 21-NOV-89 PAGE: 566 Study Type: Chronic/2 yr Carcinogenic
ANIMAL NUMBER: 288/PRE Date of Death: 20-Aug-85	MIMAL MUMBER: 288/PRETEST= 288 SEX: FEMALE ATE OF DEATH: 20-AUG-85 STUDY DAY OF DEATH: 576	DOSE GROUP: 2 STUDY WEEK OF DE	DRIBUND 234.00 (GMS)
ORGAN NAME	ES AR OB	SERVATIONS >>> SEVERITY GROSS FREE-TEXT COMMENTS	
EYES & OPTIC N. WHOLE BODY SPLEEN LIVER	CRUSTY MATERIAL, PERIORBITAL THIN WATERY BLOOD ENLARGED (SPLENOMEGALY) PROMINENT LOBULAR MARKINGS	PRESENT RED AND BLACK PRESENT LITTLE CLOTTING MARKED 7 X 2 X 1.5CM MILD	
LIVER Peritoneal Cav.		PRESENT VENTRAL ABDOMINAL WALL ADJACENT TO DIAPHRAGM PRESENT FIRM, RED/BLACK, .6 X .5CM, LOOSELY ADHERED TO LUMBAR SPINE	SN) TO LUMBAR SPINE
KIDNEY Lungs Pituitary gland	DISCOLORATION DISCOLORATION DISCOLORATION	BETWEEN ADRENALS. PRESENT DIFFUSE, BROWN, SLIGHTLY DEPRESSED, .5-1CM DIAMETER PRESENT RED, .1CM DIAMETER, LEFT DORSAL SURFACE	DIAMETER
TISSUE / HISTOPATHOLOGIC FIN	CROSCOPIC TI	SSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
THYROID GLANDS -COLLOID CYST	HYROID GLANDS	NOT SPECIFIED (PRESENT)	
PARATHYROID	PARATHYROID	TISSUE IS MISSING	
SALIVARY GLAND -ATROPHY AND LO	SALIVARY GLAND	NOT SPECIFIED (MODERATE)	
HEART	OMYOPATHY	NOT SPECIFIED(MILD)	

TUTE H SEG -344	Appendix J of RESEARCH IV GP		cont	(cont.):		INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-34	SY I	INDIVII DATA REPO GLP83009	/IDUA EPORT 09	ਵ ਜੁ	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CI	IMAL DATA PRINTED: 21-NOV-89 PAGE: 567 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	TA	PRIN F	INTED: 21-(PAGE: 567- 2 YR CARCII	PRINTED: 21-NOV-89 PAGE: 567 C/2 YR CARCINGENII	V-89 Genic
ANIMAL NUMBER: 266/PRETEST= DATE OF DEATH: 20-AUG-85 STUDY DAY O	PRETEST= STUDY DAY O		288 SEX: FEN DEATH: 576	288 SEX: FEMALE DEATH: 576	:	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 83 TERMINAL BODY WEIGHT: 234.00 (GMS)	. 2 0f DI	EATH:	ACRIFIC 83	CE STA	SACRIFICE STATUS: SACRIFICED MORIBUND H: 83 TERMINAL BODY WEIGHT: 234.	CRIFIC	CED MO	DRIBUND 234.00 (GMS)	80	(SMS)	
TISSUE / WISTOPATHOLOGIC FINDINGS	N I C R O S C FINDINGS		ပ	-	1 S S C E	1 1 1 1	BSE STRIB	R V A	T I O	Z Z Z	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	IL COMP	MENTS				
LUNGS	HRONIC					PAX INH INH INH INH INH INH INH INH	TENSI ARACTI FLAMM FLAMM NINS I THOUGH THESE NM -,	EXTENSIVE PNEUMONIC PARCHY BLY DEFINITE CHARACTERIZED PRINA INFLAMMATORY CELLS INFLAMMATORY CELLS TYPE & ALVEOLAR PY STAINS FAILED TO DE STAINS FAILED TO DE ALTHOUGH MANY OF TH STRUCTURES WHICH MA STRUCTURES WHICH MA STRUCTURES ARE FILL MACROPHAGES ARE FILL SECRETORY PRODUCT A SECRETORY PRODUCT A	UMONIC FINITE FRIMAL CELLS (CELLS (CELLS (TO FINE CO FINE CCLES V ICLES V I	LESIO AIRNA AIRNA AILY B THE JUH THE LUH THE THE LUH THE EXTENSIVE PNEUMONIC LESIONS ARE PRESENT. THE DISTRIBUTION IS CHARACTERIZED PRINARILY BY INFILTRATION IS NOTED. THE LESION IS CHARACTERIZED PRINARILY BY INFILTRATION OF NACROPHAGES AND FEVER INFLAMMATORY CELLS OF OTHER TYPES AND A MARKED PROLIFERATION OF TYPE 2 ALVECLAR EPITHELIUM. GOODPASTURE, PAS, GMS, AND AFB STAINS FAILED TO DEMONSTRATE AN ETIOLOGIC AGENT DEFINITIVELY ALTHOUGH MANY OF THE MACROPHAGES CONTAIN ROUND OR COCCOID STRUCTURES WHICH MAY BE BACTERIA. THE STAINING CHARACTERISTICS OF THESE PRATICLES VARY. THEY ARE NEITHER GRAM + NOR MACROPHAGES ARE FILLED WITH PAS + MATCRIAL WHICH IS PROBABLY SECRETORY PRODUCT AND/OR CELLULAR DEBRIS.	PRESEINTATION TRATICS S AND TOPASTL C ETIOLC E TOOLC T TOOLC T TOOLC T TOOLC H HATE R DEBR	NIT. TI NIS ME NIS ME NIN OF I NIN ROLL STAIN STAIN STAIN	MACROP MA	STRIBU TRE TRE SHAGES TO COCC TARACT IN NOR GMS.	TTION I LESION I AND F RATION D AFB TIVELY OFF WANY	N OF FEVER	
SPLEEM	TE LEUKENIA,	•	METASTATIC	10	:	(PRE	(PRESENT)	_									
LYMPH MODES						:	CTIVE SENTER L IS L ESI ADRE ATED	REACTIVE MYPEROLAS MESENTERIC NODES. LGLL IS NOTED IN A THE LESION NOTED EN THE ADRENAL GLANDS NEOPLASTIC LYMPHOCDILATED SINUSOIDS.	COLASIA DES. R IN A N ED GRO ANDS I	L IS PRICOLE AD ISSLY A SA LY	MESENTERIC NODES. RBC ARE ALSO PRESENT IN MESENTERIC NODES. LGLL IS NOTED IN A NODE ADJACENT TO THE PANCREAS IN SLIDE #12. THE LESION NOTED GROSSLY ADJACENT TO THE PUMBAR SPINE BETWEEN THE ADRENAL GLANDS IS A LYMPH NODE HEAVILY INFLITRATED BY NEOPLASTIC LYMPHOCYTES AND NUMEROUS RBC'S FILLING GREATLY DILATED SINUSOIDS.	IN CER PRESEN TO TH T TO T DE HEA	IVICAL,	MEDI MESENT CREAS LBAR S INFILT	ASTINATED OREAL GREATED	AL AND NODES. IDE #1 BETWEE BY	N.E.
	TENDSTREKTH AND/OK EK TYMPHOCYTE LEUKENIA, SIA	MET	I HKOPHAGUC METASTATIC	10 10	METASTATIC		NOT SPEC (PRESENT) NOT SPEC	IFIED IFIED	NOT SPECIFIED (PRESENT) PRESENT) NOT SPECIFIED (PRESENT)	£ £							
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL MYPERPLASIA AM -NECROSIS, PERIACINAR	ORY REACTION PERPLASIA AN	D/0R	CHOLL	NIGIOF	D/OR CHOLANGIOFIBROSIS	NOT NOT NOT	SPEC	SPECIFIED (PRESE SPECIFIED(TRACE) SPECIFIED(TRACE)	SPECIFIED (PRESENT) SPECIFIED(TRACE) SPECIFIED(TRACE)	Ç							

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA DATA REPORT GLF83009 STUDY TYPE: C
288 SEX: FEMALE DEATH: 576	2 SACRIFICE STA OF DEATH: 83 TERMI
C M C M C M C M C M C M C M C M C M C M	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT)
KIDNEY	NOT SPECIFIED(TRACE)
PANCREAS	DIFFUSE(MILD) Diffuse(mild) (present)
STOMACHEDEMUCOSAL EDEMA	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS BILATERAL AND INVOLVES NASO-LACRIMAL Ducts. Not specified(moderate)
ADREMAL	(PRESENT)
PITUITARY GLAND	(PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC M	ONLY ONE EYE SECTION IS AVAILABLE FOR EXAMINATION.
UNOLE BODY	(PRESENT)

ABDOMINAL CAVITY HISCELLANEOUS TISSUE THE LESION NOTED GROSSLY AS A 6MM X 5MM MASS BETWEEN THE ADRENAL	INDIVIOUAL ANIMAL DATA REPORT Study Number: GLP83009 Study Start Date: 23-jan-84	ANIMAL DATA PRINTED: 21-NOV-89 PAGE: 569 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC FATUS: SACRIFICED MORIBUND MINAL BODY WEIGHT: 234.00 (GMS) A SPECIAL COMMENTS A SA 6MM X 5MM MASS BETWEEN THE ADRENAL BUTTA METATIVE IN SEE	PATHOLOGY INDIVIDUAL ANIMAL DATA DIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAN-84 DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED STUDY WEEK OF DEATH: 83 U E O B S E R V A T I O N S >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENT THE LESION NOTED GROSSLY AS A 6NM X 5NM M THE LESION NOTED GROSSLY AS A 6NM X 5NM M THE LESION NOTED GROSSLY AS A 6NM X 5NM M		Appendix LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP., PATH SERV GP SPECIES: RAT/FISCHER-344 ANIMAL NUMBER: 288/PRETEST= DATE OF DEATH: 20-AUG-85 STUDY DAY TISSUE / HISTOPATHOLOGIC FINDINGS ABDOMINAL CAVITY
GUCAT LAURANCU MUM - LU - U - MINATUR ALLA MORAL MORAL MORAL WINDOWS	288/PRETEST= 288 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED M AUG-85 STUDY DAY OF DEATH: 576 STUDY WEEK OF DEATH: 83 TERMINAL BODY WEIGHT: <- M I C R O S C O P I C T I S S U E O B S E R V A T I O N S >> IOLOGIC FINDINGS MISCELLANEOUS: TISSUE THE LESION NOTED GROSSLY AS A 6MM X 5MM MA GLANDS IS A YMPH MODE UITH METASTATIC COMMENTS	LYMPH NODE. THIS LESION IS IN SECTION #21.	LYMPH NODE. THIS LESIO		
	288 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MOF DEATH: 576 STUDY WEEK OF DEATH: 83 TERMINAL BODY WEIGHT: COPIC TISSUE OBSERVATIONS >>	# 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	288 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED M OF DEATH: 576 STUDY WEEK OF DEATH: 83 TERMINAL BOOY WEIGHT:	/ SPECIAL COMMENTS		COPIC TISSU	CROSTISSUE / MISTOPATHOLOGIC FINDINGS
S C		TATUS: SACRIFICED MORIBUND MINAL BODY WEIGHT: 234.00 (GMS)	OSE GROUP: 2 SACRIFICE S TUDY WEEK OF DEATH: 83 TER		ANIMAL NUMBER: 288/PRETEST= Date of Death: 20-aug-85 study da)
		ANIMAL DATA	ATHOLOGY INDIVIDUAL	J (cont.):	Appendix

LETTERMAN ARMY INSTITUTE OF RESEARCH BIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	TITUTE OF RESEARCI ATH SERV GP ER-344		INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009
ANIMAL NUMBER: 269/PRETEST= DATE OF DEATH: 07-FEB-86 STUDY DAY OF	269/PRETEST= FEB-36 STUDY DAY OF	289 SEX: FEMA DEATH: 747		DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERHINAL BODY WEIGHT: 246.00 (GMS)
ORGAN NAME	KEYWORDS / PHRASES	ES A NO	< _	T I O M S >> GROSS FREE-TEXT COMMENTS
SKIN PITUITARY GLAND LIERUS LIVER UTERUS	SUBCUTANEOUS MASS ENLARGED NYDROMETRA ADHESION(S) GROWTH(S)/MASS(S)	S HASS ASS(S)	PRESERT T	FIRM, WHITE, 1 X 2CM, RIGHT THORACIC REGION 1CM DIAMETER, DARK RED DIAPHRAGM, VENTRAL ABDOMINAL WALL. DARK RED, LOBULATED, SOFT, 4 X 2CM IN BODY
C N I C R C N I	: ~	P 1 C T 1	SOE	0 B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID				TISSUE IS MISSING
SALIVARY GLAND				SUBLINGUAL AND SUBMANDIBULAR GLANDS ARE MISSING. PAROTID IS PRESENT AND NO LESIONS ARE RECOGNIZED.
MEART				NOT SPECIFIED(TRACE)
THYMUS			:	TISSUE IS MISSING
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITNELIAL HYPERPLASIA AND -NEPATOCYTE COALESCING MICROVESICULAR (1) -MECROSIS AND MIMERALIZATION	INFLAMMATORY REAC INFLIAL HYPERPLASI CING MICROVESICUL RALIZATION	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MIMERALIZATION	: : <u>0</u>	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE RENAL DISEASE	DISEASE			NOT SPECIFIED(MILD)
URINARY BLADDER				TISSUE IS MISSING
UTERUSENDOMETRIAL STROMAL POLYP	AL POLYP			NOT SPECIFIED (PRESENT)

Appendix J (cont.): Of RESEARCH RV GP	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009
SPECIES: RAI/FISCHER-344	STUDY TYPE: CHRONIC/2
289 SEX: FEMALE OF DEATH: 747	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 246.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE)
OVARIES	TISSUE IS MISSING
SCIATIC MERVE TISSUE IS MISSING	TISSUE IS MISSING
MANNARY GLANDS	THE SUBCUTANEOUS MASS IN THE RIGHT THORACIC REGION IS A Mammary fibroadenoma. (Present)
ADRENAL	FOCAL(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (MILD)

PA.	NTHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 TE: 23-JAW-84
290 SEX: FEMALE DO:	ATC.
KEYWORDS / PHRASES ADMESTON(S) EMLARGED	S E R V A T I D N S >> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT VENTRAL ABDOMINAL WALL. PRESENT DARK RED, .6CM DIAMETER.
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	NOT SPECIFIED(MILD)
LUNGSFOCAL HYPERPLASTIC PROLIFERATION OF TYPE 2 ALVEOLAR EPITHELIAL CELLS WITH OR WITHOUT INFLAMMATORY CELL INFILTRATION	FOCAL (MILD)
-COMPOUND RELATED INFLAMMATORY REACTION -DILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -HEPATOCYTIC VACUOLIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NULTI-FOCAL(TRACE) NULTI-FOCAL(NILD)
RIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
UTERUS STROMAL POLYP	MOT SPECIFIED (PRESENT)
SKELETAL MUSCLE	TISSUE IS MISSING
SCIATIC MERVE	TISSUE IS MISSING
- HYPERPLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE	NOT SPECIFIED(MILD)

Appendix	J (cont.):	nt.):	PATH	LOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STUDY STA	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	L ANIMAL NUMBER: 3-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84	STUDY	PRINTED: 21-NOV-89 PAGE: 573 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	11-NOV-89 73 CINOGENIC
ANIMAL NUMBER: 290/PRETEST= DATE OF DEATH: 07-FEB-86 STUDY DAY	290 SEX: FEI OF DEATH: 747	290 SEX: FEMALE DEATH: 747		ROUP: 2 WEEK OF D	DOSE GROUP: 2 SACRIFICE STATUS: F.WAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	TATUS: FINA	SACRIFICE STATUS: F; NAL SACRIFICE TH: 107 TERMINAL BODY WEIGHT: 262.00 (GMS)	
TISSUE / HISTOPATHOLOGIC FINDINGS		OPIC TISSUE	S C E	O B S E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S >>	COMMENTS	
-DILATATION (ECTASIA) OF DUCTS AND DUCTULES	CTULES		TULES		NOT SPECIFIED (PRESENT)			
MOSE/TURBINATES		NASAL CAVITY, SINUSES,	INUSES,	. CELLULA NOT SPE	CELLULAR INFILTRATE IS Not specified(Mild)	ADJACENT NA		
PITUITARY GLANDB- ADENOMA		•		(PRESENT)	•			

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009
AL NUMBER: 291/PRETESTS 291 SEX: FEMALE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747	. 21
ORGAN NAME CETOS ORGAN SEVERITY	A T I O M S >> GROSS FREE-TEXT COMMENTS
ADNESION(S) POLYP ENLARGED	DIAPHRAGM. Left uterine horn Cervical, . Scm in Diameter.
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
LUNGSMIMERALIZATION OF PULMONARY ARTERIES	NOT SPECIFIED (TRACE)
LYMPH NODES	RBC'S AND PIGNENT PRESENT IN MEDIASTINAL NODE. NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (TRACE)
UTERUS	. EXAMINATION OF MULTIPLE SECTIONS OF THE UTERUS FAILED TO DEMONSTRATE THE UTERINE POLYP DESCRIBED GROSSLY.
MAMMARY GLANDS	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)

STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
291/PRETEST= 291 SEX: FEMALE 07-FEB-86 STUDY DAY OF DEATH: 747	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 270.00 (GMS)
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
NOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES MASO-LACRIMAL DUCTS. L CAVITY, SINUSES, NOT SPECIFIED(MARKED)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED(SEVERE) NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
DIAPNRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE Not Specified (Present)

Appendix Letterman army institute of research DIV OF RES SUPP, PATM SERV GP SPECIES: RAIVISCHER-344	INSTITUTE C. PATH SERV SCHER-344	Appendix of Research	9	(cont.): PATHOLOGY INDIVIDUAL ANIMAL STUDY WUMBER: STUDY START DATE: 23-JAN-84	PATHOLOGY INDIVIDUAL ANIMAL STUDY WUMBER: T DATE: 23-JAN-84	VIDUAL ANIMAL STUDY WUMBER:	INDIVIDUAL DATA REPORT GLP83009	ANI	L DATA	PRINTED: PAGE: RONIC/2 YR C/	MAL DATA PRINTED: 21-NOV-89 PAGE: 576 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 292/PRETEST# DATE OF DEATH: 11-JAN-86 STUDY DAY OF	292/# 11-JAN-86	292/PRETEST# 1-86 STUDY DAY OF	. 92 0E	HALE	DOSE GROUP: 2 STUDY WEEK OF	OUP: 2 EEK OF D	DOSE GROUP: 2 SACRIFI STUDY WEEK OF DEATH: 103	SACRIFICE STATUS: FOUND DEAD 103 TERMINAL BODY WEIGHT	E STATUS: FOUND DEAD TERMINAL BODY WEIGHT: NOT TAKEN	STATUS: FOUND DEAD ERMINAL BODY WEIGHT: NOT TAKEN	
ORGAN NAME	*	G R O S S O	ORGAN ASES	99 O	SERVATIONS SEVERITY GROSS FREI	T I O N	T I O N S >> GROSS FREE-TEXT COMMENTS	MENTS	: : : : :		1 4 1 1 2 4 4 5 8
LIVER PITUITARY GLAND PITUITARY GLAND		ADRESION(S) ENLARGED DISCOLORATION	:		PRESENT MILD PRESENT	DIAPHRA FOCAL, I	DIAPHRAGM AND ABDOMINAL WALL, 1.5CM DIAMETER AREA FOCAL, DARK RED, 2MM DIAMETER	IINAL WALL, IM DIAMETER	1.5CM DIANE	TER AREA	
C R I C R TISSUE / MISTOPATHOLOGIC FINDING	ATHOLOGIC F	. s	0 1 4 0 0		S U E	O B S E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	N S >>	IAL COMMENTS		
-CARDIONYOPATHY					•	NOT SPE(NOT SPECIFIED(TRACE)	•			
THYMUS					:		TISSUE IS MISSING				
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION	TED INFLAMM EPITHELIAL ULAR ALTERA	ATORY REACTION HYPERPLASIA I		/OR CHOLANGIOFIBROSIS	ROSIS	NOT SPEC NOT SPEC NULTI-FC MULTI-FC	WOT SPECIFIED (PRESENT) WOT SPECIFIED(TRACE) WULTI-FOCAL(TRACE) WULTI-FOCAL(MILD) WULTI-FOCAL(MILD)	ENT)			
KIDNEYPROGRESSIVE RENAL DISEASE	SSIVE RENAL DISEASE				:	NOT SPEC	NOT SPECIFIED(TRACE)	~			
URIMARY BLADDER							TISSUE IS MISSING				
CECUM						TISSUE 1	TISSUE IS AUTOLYTIC				
MAMMARY GLANDS	15/OR HYPERTROPHY	TROPHY OF THE	ACINAR	CINAR TISSUE	•	NOT SPEC	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)	ENT)			
ADREMAL					•						

Appendix	ם	ŏ)	J (cont.):	::		PAT	HOL	X50	Z	DIVI	DUAL	PATHOLOGY INDIVIDUAL ANIMAL DATA	DA	5			
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344			STUD	Y ST	ART	STE	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-64	ANINA UMBER JAN-B	11 DAT	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T Date: 23-Jan-84	ORT	STUD	r TYPE:	CHRO	PRIN 11C/2	TED: AGE: YR CA	PRINTED: 21-NOV-89 PAGE: 577 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 292/PRETEST= DATE OF DEATH: 11-JAN-86 STUDY DAY	0F (PZ SE	292 SEX: FEMALE OF DEATH: 720	EMAL 0	ш	STUI	E GRO	UP: 2 EK OF	DEAT	SAC H: 10	SACRIFICE STATE 103 TERMIN	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 103 TERMINAL BODY WEIGHT: NOT TAKEN	OUND DE	AD H	T TAK		
T	0	-		-	S) 	:	0 6 S	E R	V A T	EVERITY	0 8 S R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL CONMENTS	NC COM	ENTS		•	
ADREMAL	LATED		ATED	:	:			NOT S	PECIF	NOT SPECIFIED(TRACE)	RACE)						
PITUITARY GLAND			:	:	:		•	(PRESENT)	Ţ								
EYES & OPTIC M	NER/		11 OM		LERA			THE REVALU	THE RETINA EVALUATED. NOT SPECIF	HAS (THE RETINA HAS UNDERGON EVALUATED. NOT SPECIFIED (PRESENT)	HE AUTOLYT	1C CHA	NGE AI	D CAN	MOT B	
-COMPOUND RELATED INFLAMMATORY REACTION	: 8	:	:	:	:		:	I SCE	LLANÉ PEC1F	ON NOT SPECIFIED (PRESE	MISCELLAMEOUS TISSUE Not specified (present)						

		J (con	(cont.):	PATHOLOGY		INDIVIDUAL		ANIMAL DATA	ATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCMER-344	E OF RESEARCH		<	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	ANIMAL HUMBER: -JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84	15	TUDY TYF	E: CHRONI	PRINTED: PAGE: C/2 YR C/	PRINTED: 21-MOV-89 PAGE: 578 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
AMIMAL NUMBER: 293/PRETEST= DATE OF DEATH: 07-FEB-86 STUDY DAY OF	293/PRETEST= 293 SEX: FEI 3-86 STUDY DAY OF DEATH: 747	: 20	3 SEX: FEMALE EATH: 747	DOSE GROUP: 2 STUDY WEEK OF	OUP: 2	DOSE GROUP: 2 SACRIF STUDY WEEK OF DEATH: 107	SACRIFICE STATUS: FINAL SACRIFICE 107 TERMINAL BODY WEIGHT: 299.00 (GMS)	FINAL BODY WE	SACRIFICE IGHT:	299.00 (GNS)	GNS)
ORGAN NAME	G R O S S O R KETWORDS / PHRASES		. sa . C	SEVERITY GROSS FREE TEX	T 1 0 N	GROSS FREE TEXT CONNELTS	THEATS				•
LIVER	ADNESION(S)			PRESENT	DIAPHRAGM	H91	:				
A MISTOPATHOLOGIC FINDINGS		0 P I C	· ·	SUE	O B S E	O B S E R V A T I O N S DISTRIBUTION (SEVERITY)	- i - < i	SPECIAL COMMENTS	MEENTS		
PARATHYRO!D			•		TISSUE	TISSUE IS MISSING					
HEARTCARDIOMYOPATHY					NOT SPE	NOT SPECIFIED(TRACE)	~				
LYKPH MODES		:			REACTIV NODES. NOT SPE	REACTIVE HYPERPLASIA IS MODES. MESENTERIC NODES NOT SPECIFIED (PRESENT)		NT IN C ISSING.	PRESENT IN CERVICAL AND MEDIASI:NAL Are missing.Rvical and mediastinal	ND MEDIAS D MEDIAST	TINAL TINAL
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIS -NEPATOCYTIC VACUOLIZATION -NEPATOCYTIC CALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NAMATORY REACTIC NL MYPERPLASIA A RATION - BASOPH TION MICROVESICULAR ATION	ND/OR CHO	/OR CHOLANGIOFIBROSIS	. 0	NOT SPE NOT SPE MULTI-F NULTI-F NOT SPE MULTI-F	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD) NOT SPECIFIED(MODERATE) MULTI-FOCAL(MILD)	ENT) ATE)				
PROGRESSIVE REMAL DISEASE	ASE			•	NOT SPE	NOT SPECIFIED(TRACE)	•				
MAMMARY GLANDS	ERTROPHY OF THE	CINAR LES	TISSUE		NOT SPE	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)	ENT)				
MOSE/TURBINATES	ORY CELL INFILTRATION, N O-LACRIMAL DUCTS	:=	ASAL CAVITY, SINUSES,	:	CELLULAI Not spec	CELLULAR INFILTRATE Not Specified(MILD)	IS ADJACENT NASO-LACRINAL DUCTS	NT NASO	LACRIMAL	DUCTS.	

	FRIEDWOST INDIVIDUAL ANIMAL DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 579 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 293/PRETEST= 293 SEX: FEMALE DOSE DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	ACRIFICE GHT: 299.00 (GMS)
TISSUE / MISTOPATWOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
ADREMAL TISSUE IS MISSING	TISSUE IS MISSING	
PITUITARY GLAND TISSUE IS MISSING	TISSUE IS MISSING	
EYES & OPTIC N	FOCAL (TRACE)	
UNDLE BODY	TREACHEA AT THE LEVEL OF THE TAYROLD GLANDS AND ADJACENT TO THE THE THYROLD GLANDS AND ADJACENT TO THE THYROLD GLANDS AND ADJACENT TO THE SPECIFIED IN COMMENTS) NOT SPECIFIED (PRESENT)	NOTED ADJACENT TO THE GLANDS AND ADJACENT TO THE LANDS AND ADJACENT TO THE
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE Not Specified (Present)	

INSTITUTE OF RESEARCH , Path Serv GP Scher-344 Study Star	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
AMINAL NUMBER: 294/PRETEST 294 SEX: FENALE DOSE GROUP: 2 DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 STUDY WEEK OF	. 96
8 O	0 . 0
TISSUE / HISTOPATHOLOGIC FINDINGS	RIGHT. OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TWYROID GLAMDSPPRRPLASIA ("C" CELL, LIGHT CELL)	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSISMEPATITISFOCUS OF CELLULAR ALTERATION BASOPHILIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NULTI-FOCAL(TRACE) NULTI-FOCAL(TRACE)
KIDNEY	NOT SPECIFIED(TRACE)
URINARY BLADDER TISSUE IS MISSING	TISSUE IS MISSING
MANMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT THE NASO-LACRINAL DUCTS. Not Specified(Mild)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
ART ART	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
PRETEST 294 SEX: FEMALE STUDY DAY OF DEATH: 747	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 260.00 (GMS)
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BONE, FENUR TISSUE IS MISSING	. TISSUE IS MISSING
PITUITARY GLAND	. MOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED(TRACE) NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
DIAPHRAGH MISCELLAMEOUS TISSUE .COMPOUND RELATED INFLAMMATORY REACTION	MISCELLAMEGUS TISSUE Not specified (present)

J (cont.): PAT INDIVITED STUDY START DATE	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA REPORT VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAN-84
ER: 295/PRETEST# 295 SEX: FEMALE IN: 07-FEB-86 STUDY DAY OF DEATH: 747	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE Study week of Death: 107 Teryinal Body Weight: 224.00 (GMS)
A GROSS ORGAN OB	T L GROS
LIVER ADMESION(S) PRESENT UTERUS POLYP	VENTRAL ABDOMINAL WA'L. RIGHT HORN, PROXIMAL TO OVARY, 1.5 X .4CM, DISTAL TO OVARY, .5 X .3 CM. LEFT HORN, PROXIMAL TO OVARY, 1 X .7CM.
OVARIES PARA-OVARIAM CYST(S) PRESENT	LEFT.1CM DIAMETER.
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >>
LACRIMAL GLAND	MULTI-FOCAL(MILD)
LUNGS	NOT SPECIFIED (TRACE)
MEMOSIDERIM AND/OR ERYTHROPHAGOCYTOSIS WITHIN	. RBC'S. PIGMENT, REACTIVE HYPERPLASIA AND DILATED SINUSES ARE NOTED IN MEDIASTINAL NODES. MOT SPECIFIED (PRESENT)
MEDULLARY SIMUSES -reactive myperplasia -dilated amd/or cystic medullary sinuses	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NULTI-FOCAL(MILD) MULTI-FOCAL(MODERATE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
UTERUS	

Appendix J	J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL STUDY MUMBER: STUDY START DATE: 23-JAN-64	DATA REPORT GLP83009
ANIMAL NUMBER: 295/PRETEST= 295 DATE OF DEATH: 07-FEB-86 STUDY DAY OF DE	295 SEX: FEMALE DOS OF DEATH: 747 STU	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 224.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	I C T I S U E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUSENDOMETRIAL STROMAL POLYP	80	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
OVARIES		NOT SPECIFIED (PRESENT)
MANMARY GLANDS	ACIMAR TISSUE TULES	MOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	MASAL CAVITY, SINUSES,	CELLULAR INFILTRATE IS NOTED ADJACENT TO NASO-LACRINAL DUCT. NOT SPECIFIED(MILD)
ADREMAL		NOT SPECIFIED(TRACE)
PITUITARY GLAND		NOT SPECIFIED (PRESENT)
WHOLE BODY	SPECIFIED IN COMMENTS)	INFLAMMATION OF BROWN FAT NOTED ADJACENT TO THE THYROID GLANDS.

b	(cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
		VIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
4 OF	HALE	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 247.00 (GMS)
C G R O S S KEYWORDS / PHR	6	
LIVER ADMESSION(S) PITUITARY GLAND DISCOLORATION	PRESERT	DIAPHRAGN FOCAL, BLACK, .3CM DIAMETER
C TISSUE / HISTOPATHOLOGIC FINDINGS	T I S S U E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	GHT CELL)	NOT SPECIFIED(TRACE)
MEART		NOT SPECIFIED(TRACE)
LUNGS		NOT SPECIFIED(TRACE)
LYMPM NODES		REACTIVE HYPERPLASIA NOTED IN CERVICAL MODES. REACTIVE HYPERPLASIA, PIGHENT AND RBC'S NOTED IN MEDIASTINA!
-RED BLOOD CEELS, MEMOSIDERIM AND/OR ERYTHROPHA	ERYTHROPHAGOCYTOSIS WITHIN	
- REACTIVE MYPERPLASIA		NOT SPECIFIED (PRESENT)
LIVER	AND/OR CHOLANGIOFIBROSIS HILIC	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT) FOCAL (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED (MODERATE)
PANCREAS		

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	
296 SEX: FEMALE F DEATH: 747	ST
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS ATROPHY	FOCAL(TRACE)
SKELETAL MUSCLE	TISSUE IS MISSING
SCIATIC MERVE	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCTS. NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED(TRACE) FOCAL(TRACE)
- COMPOUND RELATED INFLAMMATORY REACTION	

PE 2	INDIVIDUAL DATA REPORT GLPB3009
297 SEX: FEMALE DEATH: 747	. ~ ~
ORGAN MANE KEYWORDS / PURASES SEVERITY SEVERITY ADMINISTRATE PRESENT	T I O N S YY GROSS FREE-TEXT COMMENTS CASS FREE-TEXT COMMENTS VEHTRAL ABDOMINAL WALL, DIAPHRAGM.
E / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TWYROID GLANDS	(PRESENT)
MEARTCARDIOMYOPATHY	NOT SPECIFIED(TRACE)
LYMPN MODES	RBC'S AND PIGNENT NOTED IN MEDIASTINAL NODE. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MILD)
MAMMARY GLANDS	NOT SPECIFIED(MILD) Not specified (present)
ADREMAL	NOT SPECIFIED(TRACE)
EYES & OPTIC M	

	ם	(cont.):			PAT	HOLO	ξĶ	PATHOLOGY INDIVIDUAL ANIMAL DATA	VIDU	YE .	MIN	d d	ATA				
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		·	1007	STAR	2	DUAL / UDY NI : 23	INIMAL IMBER: IAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84	REPORT 009		STL	DY TY	PE: CH	PR RONIC/	INTED PAGE 2 YR	PRINTED: 21-NOV-89 PAGE: 587 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	-89 ENIC
ANIMAL NUMBER: 297/PRETEST DATE OF DEATH: 07-FEB-86 STUDY DAY OF	0f 0	297 SEX: FEMALE DEATH: 747	FEN 747	ALE	008 STU	E GROL	P: 2 K 0F	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 289.00 (GMS)	SACRIF 107	ICE S	TATUS:	FINAL ODY W	SACRI	F1CE 28	9.00	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 289.00 (GMS)	:
TISSUE / HISTOPATHOLOGIC FINDINGS		5	-	S	3 C 1 C 1 C C C C C C C C C C C C C C C		BS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	A T I (SEVE	ON S RITY)	/ SPEC	IAL C	OMMENTS		•	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	:
EYES & OPTIC M	UNI	LATER	NL 08	BILL	JUILATERAL OR BILATERAL SRALIZATION, SCLERA		NOT SP NOT SP	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)	O(TRAC	E) SENT)							
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	NO.					:	I SCEL OT SP	MISCELLANEOUS TISSUE	TISS	UE SFWT)							

(cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCHOGENIC
298 SEX: FEMALE DEATH: 747	SACRIFICE STATU
ME KEYWORDS / PARASES	T 1 O N S >> GROSS FREE-TEXT COMMENTS
	DIAPHRAGM, ABDOMINAL WALL. MULTIPLE, MINUTE, TAN FOCI, BILATERAL. LEFT HORM, DISTAL TO OVARY, 1 X .5CM.
C NISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	WOT SPECIFIED(TRACE)
PARATHYROID	. TISSUE IS MISSING
- CARDIONYOPATHY	NOT SPECIFIED(MILD)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDNETPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MILD)
UTERUS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	

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SPECIES: RAT/FISCHER-364			TUDY	STAI		STUD STUD ITE:	STUDY START DATE: 23-JAN-84	3ER:	0A1A GLP83	200 200 200 200 200 200 200 200 200 200	=	G	TUDY	TYPE:	CHRO	PR 1	INTED: 21-N PAGE: 589 ? YR CARCIN	PRINTED: 21-NOV-89 PAGE: 589 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	ပ
ANIMAL NUMBER: 298/PRETEST= DATE OF DEATH: 07-FEB-86 STUDY DAY OF	0F E	298 SEX: FENALE DEATH: 747	. FE.	SEX: FENALE TH: 747		OSE	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	0.2 0.5	EATHE	SACR1	FICE	STATUS	F1N 800Y	AL SA	CRIFIC	259.	259.00 (GNS)	SACRIFICE STATUS: FINAL SACRIFICE H: 107 TERMINAL BODY WEIGHT: 259.00 (GMS)	
TISSUE / MISTOPATHOLOGIC FINDINGS		3	• • •		- J	:	•	3 8 E	V 108	A T I	ERITY	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ECIAL	COMM	ENTS		:		
NANNARY GLANDS	CTUL	ES	:	į		:		SPE	CIFIE	0 (PR	NOT SPECIFIED (PRESENT)	•							
HOSE/TURBINATES	2	MASAL CAVITY, SINUSES,	AVIT	7, \$1	NUSE		CEI	SPE	R INF	CELLULAR INFILTRATE Not specified(MILD)	TE NO	reo AD	JACEN	T NAS	D-LACI	LIMAL	DUCTS	å	

Appendix Letterman army institute of Research DIV of Res Supp, Path Serv GP Species: Rat/Fischer-344	Appendix J of Research RV GP	ם	ပိ	(cont.):	Z	PATE INDIVIDU STUD I DATE:	nt.): PATBOLOGY INDIVIDUAL ANIMAL STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA L DATA REPORT : GLP83009 4 STUDY TYPE: C	UAL 1	STUDY	INAL DATA PRINTED: 21-NOV-69 PAGE: 590 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRIN F RONIC/2	PRINTED: 2 Page: 5 C/2 YR car	21-40V-69 590 Arcinogenic
AMINAL MUMBER: 299/PRETEST= Date of Death: 07-feb-86 Study Day of	299/PRETEST= B-86 STUDY DAY OF		299 SEX: FEMALE DEATH: 747	X: FE:	MALE	DOSE STUDY	DOSE GROUP: 2 STUDY WEEK OF	DEATH:	FICE ST.	ATUS: FIL	SACRIFICE STATUS: FINAL SACRIFICE 107 TERMINAL BODY WEIGHT:	FICE 289.00 (GNS)	289.00 (GNS)	(\$)
ORGAN WANE	G R O S S O O KEYWORDS / PNRAS	O R	ES B	=	0	S E R V A SEVERITY	و س	T T O N S >> GROSS FREE-TEXT COMMENTS	OMMENTS	1 1 4 1 5				
GLAND	ADRESION(S) NYDROMETRA ENLARGED	• • • •				PRESENT PRESENT PRESENT	VENT UTER	VENTRAL ABDOMINAL WALL. UTERINE HORMS, BILATERAL. SCM, DARK RED.	L WALL.	ند				
C N 1 C R C I I STOPATHOLOGIC FINDINGS	: 6	•		:		S U E	0 8 8	OBSERVATIONS DISTRIBUTION (SEVERITY)	T I O N S SEVERITY) /	SPECIAL	>> SPECIAL COMMENTS			
MEARTCARDIONYOPATKY	•					:	NOT SI	NOT SPECIFIED(M1LD)	6					
LUNGSPNEUMONIA, INTERSTITIAL, CARONIC	CHRONIC	•					FOCAL	FOCAL (MILD)						
LYMPM MODES	VULLAR, SIN						REACTI REACTI MEDIAS NOT SP	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. REACTIVE HYPERPLASIA ANDDILATED SINUSES ARE N MEDIASTIMAL NODES. NOT SPECIFIED (PRESENT)	SIA NOTE SIA ANDO . ESENT)	ILATED S	NOTED IN CERVICAL NODES. Anddilated Sinuses are noted in T)	ES. E NOTED	2	
-COMPOUND RELATED INFLAMMATORY REACTION -BLIE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -HEPATOCYTIC VACUOLIZATION -FOCUS OF CELLULAR ALTERATION - EOSIMOPHILIC CELLS -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING -MERALIZATION	MYPERPLASIA MYPERPLASIA MYPERPLASIA MYPERPLASIA MYPERPLASIA MYPERPLASIA	TON TOPHI)/OR CHOLAN	OLANG CHANG	10FIB)/OR CHOLANGIOFIBROSIS IILIC CELLS ATTY) CHANGE LEADING TO	NOT SP NOT SP NULTI- NULTI- NOT SP	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)	ESENT)					
KIDNEYPROGRESSIVE RENAL DISEASE		•	:				_	NOT SPECIFIED(MILD)	2					
UTERUS	•	•	:											

STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY IYPE: CHRONIC/2 YR CARCINGENIC
AMINAL NUMBER: 299/PRETEST= 299 SEX: FEMALE DOSE GR DATE OF DEATH: 07-FE8-86 STUDY DAY OF DEATH: 747 STUDY W	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 289.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> OISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
OVARIES	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)

	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 300/PRETEST* 300 SEX: FEMALE DOS DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 STU	300 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DEATH: 747 STUDY WEEK OF DEATH: 107 TERHINAL BODY WEIGHT: 270.00 (GMS)
ORGAN NAME KEYLORDS / PHRASES A 2 O 8 G R V A	V A T I O N S VV TY GROSS FREE-TEXT COMMENTS
A H C R O S C O P I C T I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(TRACE)
SPLEEN	FOCAL(TRACE)
-COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	MOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE) O MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
UTERUS	THE UTERINE LUMEN IS DILATED BUT NO HISTOLOGIC EVIDENCE OF A POLYP IS PRESENT. NOT SPECIFIED (PRESENT)
CECUM	TISSUE IS MISSING
MAMMARY GLANDS	

Appendix J (cont.): PATROLOGY INDIVIDUAL ANIMAL DATA LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-64
ANIMAL NUMBER: 300/PRETEST 300 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 107 TERMINAL BODY WEIGHT: 270.00 (GMS)
COPIC TISSUE / MISTOPATHOLOGIC FINDINGS 11 SSUE / MISTOPATHOLOGIC FINDINGS 12 SSUE / MISTOPATHOLOGIC FINDINGS
MAMMARY GLANDS
NOSE/TURBINATES
PITUITARY GLAND
DIAPHRAGM

Appendix J (cont.): PATHOLOGY LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY STATE DATE: 22.1.00 STATE DATE: 22.1.04.54.	NTHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 TEL 21-NOV-89 TEL 21-NOV-89 TEL 21-NOV-89
/PRETEST= 301 SEX: FEMALE STUDY DAY OF DEATH: 747	SACRIFICE STATU DEATH: 107 TERNINA
A GROSS ORGAN OB	
PANCREAS GROUTH(S) / MASS(ES) PRESENT PITUITARY GLAND ENLARGED PRESENT	.5CM, FOCAL.
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
YROID	TISSUE IS MISSING
HEART	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUMGS	NOT SPECIFIED(TRACE)
LYMPH NODES	. – –
- REACTIVE HYPERPLASIA	NOT SPECIFIED (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITMELIAL HYPERPLASIA AND/OR CHOLAMGIOFIBROSIS -MEPATITIS -MEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MIMERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(WILD) WULTI-FOCAL(WILD)
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
PANCREAS	

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
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Appendix

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	ت ت
ANIMAL NUMBER: 301/PRETEST# 301 SEX: FEMALE DOSE GROUP: 2 DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 267.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	(PRESENT)
RECTUM TISSUE IS MISSING	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED(MILD)
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED(TRACE)
DIAPMRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE Not specified (present)

STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 T DATE: 23-JAN-64
302 SEX: FEMALE F DEATH: 747	TATU
NO DO DO DO DO DO DO DO DO DO DO DO DO DO	SEVATIONS TREFTENTS
ARY GLAND ENLARGED	PRESENT DIAPHRAGM PRESENT DIAPHRAGM PRESENT .9 X .4CM, DARK RED.
TISSUE / HISTOPATHOLOGIC FINE INGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAIM	(PRESENT)
THYROID GLANDS	NOT SPECIFIED(TRACE)
NEART	NOT SPECIFIED(WILD)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH MODES	REACTIVE HYPERPLASIA MOTED IN CERVICAL NODES. Reactive hyperplasia and dilated medullary sinuses are present in mesenteric modes.
-REACTIVE HYPERPLASIA -DILATED AMD/OR CYSTIC MEDULLARY SINUSES	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD) MULTI-FOCAL(TRACE) FOCAL(TRACE)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
PRETEST 302 SEX: FEMALE STUDY DAY OF DEATH: 747	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERNINAL BODY WEIGHT: 255.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDMEYPISEASE	NOT SPECIFIED (MODERATE)
UTERUSIMFILTRATE	NOT SPECIFIED (TRACE)
CECUM TISSUE IS MISSING	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED(TRACE)
DIAPMRAGN	MISCELLANEOUS TISSUE Not specified (present)

	Appendix	J (CC	(cont.):	••	PATHOLOGY		INDIVIDUAL ANIMAL DATA	C ANIMA	L DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344	ESEAR	1	STUDY		STUDY DATE: 2	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84	STUB	PRINTED: 21-NOV-89 PAGE: 598 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINT PA ONIC/2 Y	PRINTED: 21-NOV-89 PAGE: 598 C/2 YR CARCINGENIO
ANIMAL NUMBER: DATE OF DEATH: 10-F	DATE OF DEATH: 10-FEB-86 STUDY DAY OF	, MJ	303 SEX: FENALE DEATH: 750	:	DOSE GE STUDY	ROUP: 2 WEEK OF I	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 256.00 (GMS)	CE STATUS: FINAL SACRI TERMINAL BODY WEIGHT:	SACRIFICE STATUS: FINAL SACRIFICE 108 TERMINAL BODY WEIGHT:	1CE 256.0	256.00 (GNS)
ORGAN NAME	C G R O S S O R KEYWORDS / PHRASES	• •	Z		S E R V A SEVERITY	A T I O I	R V A T I O N S >> ERITY GROSS FREE-TEXT COMMENTS	ENTS			
LIVER PITUITARY GLAND	ADMESION(S) DISCOLORATION				PRESENT PRESENT	VENTRA! BLACK,	VENTRAL ABDOMINAL WALL BLACK, .1CM DIAMETER				
TISSUE / NISTOPATHOLOGIC FINDINGS	A M I C R O S C	0 1 0 0		· •	SCE	OBSERV DISTRIBUTION	OBSERVATIONS DISTRIBUTION (SEVERITY)		>> COMMENTS		
TWYROID GLANDS	MYROID GLANDS	" CELL, L	CELL, LIGHT CELL)	CELL)			NOT SPECIFIED(TRACE)				
LACKINAL GLAND -ATROPHY AND/OR LO:	ACKINAL GLANDATROPHY AND/OR LOSS OF ACINAR TISSUE				•		NOT SPECIFIED (NODERATE)	TE)			
HEART	-CARDIONYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIE	ES			•	NOT SPE	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)				•
LYMPH HODES					•		REACTIVE MYPERPLASIA MOTED IN CERVICAL MODES. Reactive Myperplasia, rbc's and Pignent Noted in Mediastinal Mode. Reactive Myperplasia, rbc's, pigment and dilated Medullary Simuses are present in Mesenteric Mode Adjacent to	NOTED IN C. RBC'S AND PLASIA, RBC	ERVICAL NODE PIGMENT NOT 'S, PIGMENT N MESENTERIC	ES. TED IN ME AND DILA ' MODE AD	EDIASTINAL (TED JACENT TO
-RED BLOOD CEELS, P	HEMOSIDERIM AND/OR ERY	ERYTHROP	THROPHAGOCYTOSIS WITHIN	10818	VI THIN	THE PANCREAS.	PANCREAS. SPECIFIED (PRESENT)	(1)			
REDULLART SIMUSES -REACTIVE MYPERPLASIA -DILATED AND/OR CYSTI	MEDULLARY SIMUSES REACTIVE WYPERPLASIA Dilated amd/or cystic medullary sinuses	S				NOT SPE	SPECIFIED (PRESENT) SPECIFIED (PRESENT)	££			
LIVER	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING NECROSIS AND MINERALIZATION	ON AND/OR C (FATTY))/OR CHOLANGIOFIBROSIS	10F1BR	DLANGIOFIBROSIS Change Leading to		NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD) NULTI-FOCAL(TRACE)	Ē			

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	L DATA
INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jan-84	PRINTED: 21-NOV-89 PAGE: 599 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 303/PRETEST 303 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DATE OF DEATH: 10-FEB-86 STUDY DAY OF DEATH: 108 TERMINAL BODY WEIGHT:	FINAL SACRIFICE DOY WEIGHT: 256.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS COPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	IAL COMMENTS
KIDNEYPROGRESSIVE RENAL DISEASE	
UTERUS	
SCIATIC MERVE TISSUE IS MISSING	
MANNARY GLANDS	NO MAMMARY TISSUE IS PRESENT ON SLIDE #15. DIAGNOSIS OF MAMMARY ACINAR HYPERPLASIA AND DILATED DUCTS WAS MADE ON MAMMARY TISSUE
-NYPERPLASIA AND/OR NYPERTROPHY OF THE ACINAR TISSUE NOT SPECIFIED(NILD) -DILATATION (ECTASIA) OF DUCTS AND DUCTULES NOT SPECIFIED (PRESENT)	
EVES & OPTIC N	

TE OF RESEARCH Serv GP 544 STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
FENALE 750	SACRIFI OF DEATH: 108
C G R O S S O R G A N O B S E R KEYLORDS / PHRASES SEVER	
LIVER ADMESION(S) PRESENT KIDMEY DISCOLORATION PRESENT SPLEEM ENLARGED (SPLENOMEGALY) MARKED PITUITARY GLAND ENLARGED	DIAPHRAGN GREEN/BROUN G.5 x 1.75CM DARK RED, .4CM DIAMETER
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KEARTCARDIOMYOPATHY	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE) (PRESENT) NOT SPECIFIED (PRESENT)
SPLEEM	(PRESENT)
LYMPH NODES	LGLL IS PRESENT IN CERVICAL, MEDIASTINAL AND MESENTERIC NODES. (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NECROSIS -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NULTI-FOCAL(TRACE) NOT SPECIFIED(MILD) (PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED(TRACE)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY MUNBER: GLP83009
STUDY START DA	STUDY TYPE: CHRONIC/2
304 SEX: FEMALE OF DEATH: 750	SAC DEATH: 10
TISSUE / MISTOPATMOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	MULTI-FOCAL(TRACE) (Present)
MAMMARY GLAMDS	NOT SPECIFIED(MILD)
BOSE/TURBINATES	
-ACUTE INFLAMMATION -Subacute inflamation	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED(MILD)
UNDLE BODY	(PRESEMT)
DIAPHRAGM MISCELLANEOUS -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

(cont.):	INDIVIDUAL DATA REPORT GLP83009
305 SEX: FEMALE DEATH: 750	S SACRIFICE STATUS OF DEATH: 108 TERMINAL
ORGAN MAME C G R O S S O R G A M O B S E R V A KEYWORDS / PMRASES SEVERITY SEVERITY ADMESTON(S) PRESENT	T I O N S >> GROSS FREE-TEXT COMMENTS VENTRAL ABDONINAL WALL
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TNYROID GLANDS	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(TRACE)
SPLEER	NOT SPECIFIED(MILD)
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) HULTI-FOCAL(MILD) HULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MILD)
PANCREAS	NOT SPECIFIED (MODERATE)
MAMMARY GLANDS	NOT SPECIFIED(MODERATE) Not specified (present)

Appendix	<u>ت</u>	J (cont.):		ATHOI	X907	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		STUDY	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-64	VIDUAL STUDY 1	ANIMAL NUMBER: -JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-84	STUDY	PRINTED: 21-MOV-89 PAGE: 603 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-1 PAGE: 603 IC/2 YR CARCII	PRINTED: 21-NOV-89 PAGE: 603 C/2 YR CARCINOGENIC
		305 SEX: FEMALE OF DEATH: 750	ALE	OSE GR	OUP: 2 EEK OF D	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 253.00 (GMS)	SACRIFICE STATUS: FINAL SACRIFICE H: 108 TERMINAL BODY WEIGHT: 253.00 (GMS)	AL SACRIFICI VEIGHT:	253.00 (6	MS)
TISSUE / MISTOPATHOLOGIC FINDINGS	- O	2	- S	w	O B S E	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >>	COMMENTS	•	
MOSE/TURBINATES	, NASA	L CAVITY	, SINUSE	Š	CELLULA NOT SPE	IR INFILTRATE NO (CIFIED(MILD)	ITED ADJACENI	TO NASO-L/	ICRIMAL DU	cts.
PITUITARY GLAND					TON TON	NOT SPECIFIED (SPECENT)				

MANAGE 1 1 1 1 1 1 1 1 1	= =	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 T DATE: 23-JAN-84 STUDY ITPE: CHRONIC/2 YR CARCINGENIC
MESTONATION MESTONATE MESTONATION METATONATION ONATIONATIONATIONATIONATION	DAY OF DEATH: 75)	GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 300.00 (GMS)
**************************************	NAME KEYLORDS / PHRASES SEVE	GROSS
HAD ADDRESS AND COMMENT THE TISSUE ADJACENT TO THE PAROTID GLAND MANMARY GLAND FOR DIAGNOSIS AND COMMENT. MOT SPECIFIED (TREES) ANY SINUSES ANY SINUSES ANY SINUSES ANY SINUSES ANY SINUSES ANY SINUSES ANY SINUSES ANY SINUSES AND MOT SPECIFIED (PRESENT) AND MINERALIZATION BOT SPECIFIED (PRESENT) AND SPECIFIED (PRESENT) BOT SPECIFIED (PRESENT) BOT SPECIFIED (PRESENT) BOT SPECIFIED (PRESENT) BOT SPECIFIED (PRESENT) BOT SPECIFIED (PRESENT) BOT SPECIFIED (MILD) FOLGATOR (RACE) FO	E / HISTOPATHOLOGIC FINDINGS	DIAFHRAGM O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
DES		THERE IS A SMALL ADENOMA, PROBABLY OF MAMMARY ORIGIN, IN ADIPOSE CONNECTIVE TISSUE ADJACENT TO THE PAROTID GLAND. MAMMARY GLAND FOR DIAGNOSIS AND COMMENT.
DES OOD CEELS, MEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN ARY SINUSES ARY SINUSES UCTULE EPITMELIAL WYPERPLASIA AND/OR CHOLANGIOFIBROSIS TIS CYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO IS AND MINERALIZATION SSIVE RENAL DISEASE TRIAL STRONAL POLYP ULAR CYSI(S)	DIOMYOPATHY	
HE RELATED INFLAMMATORY REACTION UCTULE EPITMELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS TIS TIS TIS TIS TIS TIS TIS TIS TIS	CEELS, HEMOSIDERIM AND/OR ER Siruses	
	POUND RELATED INFLAMMATORY REACTION E DUCTULE EPITHELIAL HYPERPLASIA AN ATITIS ROSIS ATOCYTE COALESCING MICROVESICULAR (
TRIAL STROMAL POLYP ULAR CYST(S)	ESSIVE REMAL DISEASE	
ULAR CYST(S)	NETRIAL STROMAL POLYP	
	ULAR CYST(S)	

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
INI STUDY START I	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ST 306 SEX: FEMALE UDY DAY OF DEATH: 750	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 300.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	MOT SPECIFIED(TRACE)
MAMMARY GLANDS	A SMALL ADENOMA, PROBABLY OF MAMMARY ORIGIN, IS SITUATED IN THE ADIPOSE CONNECTIVE TISSUE ADJACENT THE PAROTID GLAND IN SECTION
-MYPERPLASIA AND/OR MYPERTROPHY OF THE ACIMAR TISSUE -B- FIBROADENOMA -DILATATION (ECTASIA) OF DUCTS AND DUCTULES	#4. Not Specified(MILD) (present) Not Specified (present)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT. USES, NOT SPECIFIED(NILD)
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAMD	MOT SPECIFIED (PRESENT)

Appendix J (cont.): PATE	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATM SERV GP SPECIES: RAT/FISCHER-344 SPECIES: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 I DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
307 SEX: FEMALE OF DEATH: 671	P: 2
ORGAN OB	T 1 O N
WHOLE BODY POST MORTEM AUTOLYSIS. HODERATE SPLEEN ENLARGED (SPLENOMEGALY) MARKED LIVER ENLARGED CAPLENOMEGALY) PRESENT EYES & OPTIC N. CORNEAL OPACITY PRESENT	6 x 2 x 1.5cm
TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	TISSUE IS MISSING
PARATHYROLD	TISSUE IS MISSING
HEART	NOT SPEC. FIED (TRACE)
LUNGS	. (PRESENT)
SPLEEN	(Present)
LYMPH WODES	. REACTIVE MYPERPLASIA PRESENT IN CERVICAL NODE. LGLL IS PRESENT IN A MEDIASTINAL NODE IN SECTION #8 ADJACENT TO
-W- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -Reactive hyperplasia	
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITMELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -MEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC)	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NULTI-FOCAL(MILD) NOT SPECIFIED(MILD)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2
/PRETEST 307 SEX: FEMALE STUDY DAY OF DEATH: 671	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 268.00 (GMS)
C MISTOPATHOLOGIC FINDINGS	ON S RITY)
LIVER	(PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (TRACE)
UTERUS	(PRESENT)
OVARIES	(PRESENT)
DUOD ENUM	TISSUE IS AUTOLYTIC
JEJUNUM TISSUE IS AUTOLYTIC	TISSUE IS AUTOLYTIC
ILEUM	TISSUE IS AUTOLYTIC
CECUM	TISSUE IS AUTOLYTIC
RECTUR	TISSUE IS AUTOLYTIC
COLOM TISSUE IS AUTOLYTIC	TISSUE IS AUTOLYTIC
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
BONE, STERNUM	TISSUE IS MISSING
EYES & OPTIC M	IT IS NOT POSSIBLE TO EVALUATE THE RETINA OR OTHER INTRAOCULAR STRUCTURES OTHER THAN THE LENS BECAUSE OF AUTOLYTIC CHANGE. NOT SPECIFIED(TRACE)

Ppp	Appendix		J (cont.):	ont	 	P4	ATH	9010	7 5		VID	UNI	2	KAL	PATHOLOGY INDIVIDUAL ANIMAL DATA	4			
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	SEARCH			STUD	Y ST/	ON I	STUD STUD ATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 STUDY START DATE: 23-JAN-64	IMAL SER: (DATA Glp83	REPOS 009	L		STUDY	PRINTED: 21-NOV-89 PAGE: 606 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	CHRONI	PRINTI PAC C/2 YE	NTED: 21-1 PAGE: 608 YR CARCIN	PRINTED: 21-NOV-89 PAGE: 606 C/2 YR CARCINGENIO
ANIMAL NUMBER: 307/PRETEST= DATE OF DEATH: 23-NOV-85 STUDY DAY	RETEST= STUDY DAY	• ,	307 SEX: FEMALE OF DEATH: 671	EX: F	EMALE		OOSE	GROUP	9.2	EATHE	SACRI 96	FICE	STATU	S: FO	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 268.00 (GMS)		268.00 (GMS)	(GWS	
TISSUE / MISTOPATHOLOGIC FINDINGS	8 0 M	. •	۵.		~	S		0 2	OBSERVATIONS >>	> 11 NO 11	A T I	O N ERITY	\$ / S	PECIAL	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	NTS:	•	! !	•
EYES & OPTIC M	GES CO	MPAT	ATIBLE WITH CATARACT		CATAR	ACT			NOT SPECIFIED (PRESENT)	CIFIE	0 (PR	ESENT	_						
WHOLE BODY	C LEUK	ENIA	¥II		:			•	(PRESENT)	_									
DIAPWRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	Y REAC	T 10H						SIM :	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)	NEOU:	S 71S 0 (PR	SUE ESENT	_						

Appendix J (cont.): PATHOLOGY LETTERNAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	GOGY INDIVIDUAL ANIMAL DATA ANIMAL DATA REPORT HUNBER: GLP83009 -JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
/PRETEST 306 SEX: FEMALE STUDY DAY OF DEATH: 750	. < -
A G R O S S KEYVORDS / P	
LIVER ADMESSION(S) PRESENT PITUITARY GLAND DISCOLORATION PRESENT	DIAPHRAGN, VENTRAL ABDONINAL WALL BLACK, .1CM DIAMETER, FOCAL
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TWYROID GLANDS	(PRESENT)
PARATHYROLD	TISSUE IS MISSING
EXORBITAL LACRIMACIMAR ATROPHY	FOCAL (TRACE)
MEART	NOT SPECIFIED(MILD)
LUNGS PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
TAYAUS	TISSUE IS MISSING
LYMPH NODES	RBC'S AND PIGMENT NOTED IN MEDIASTINAL NODE. THE MESENTERIC RODE IS MISSING. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MODERATE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)

LETTERNAM ARMY INSTITUTE OF RESEARCH LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAIVEISCHER 144.	AL AN
/PRETESTS 308 SEX: FEMALE STUDY DAY OF DEATH: 750	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STATUS: FINAL SACRIFICE STATUS: FINAL SACRIFICE STATUS: FINAL SACRIFICE STATUS STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 267.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER MEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NOT SPEC	NOT SPECIFIED(MILD)
KIDNEYNOT SENAL DISEASE NOT SPEC	NOT SPECIFIED(TRACE)
URINARY BLADDER	ACE)
NAMMARY GLANDSNPERTROPHY OF THE ACINAR TISSUE NOT SPEC	NOT SPECIFIED(MILD)
MOSE/TURBINATES CELLULAR MIXED INFLAMMATORY CELL INFILTRATION, MASAL CAVITY, SINUSES, MOT SPECTURBINATES, MASO-LACRIMAL DUCTS	
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE Not specified (presert)

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
Appendix J

Appendix Court Court	FAIRCECS: INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	2 5 E
309 SEX: FEMALE F DEATH: 526	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 76 TERMINAL BODY WEIGHT: 218.00 (GMS)
CC GROSS ORGAN OSS	
UNDLE BODY POST MORTEN AUTOLYSIS. MARKED PERITOMEAL CAV. FLUID-FILLED PRESENT LIVER ADMESION(S) PASS(ES) PRESENT PERITOMEAL CAV. GROUTH(S) / MASS(ES) PRESENT	10-15ML CLEAR PALE YELLOW ASCITIC FLUID DIAPHRAGM, 1CM AREA WHITE, WUMEROUS, RAISED, RANDOMLY DISTRIBUTED THROUGHOUT PERITONEAL CAVITY.
CROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	TISSUE IS AUTOLYTIC
MEART	NOT SPECIFIED(TRACE) SECONDARY WEOPLASM FROM ORGAN ABDONINAL CAVITY
LURGSPREUMONIA, INTERSTITIAL, CHRONIC -R- PRESENCE OF METASTATIC MEOPLASM	MULTI-FOCAL(TRACE) SECONDARY WEOPLASM FROM ORGAN ABDOMINAL CAVITY
SPLEEU	SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY
LYMPH MODES	. TISSUE IS AUTOLYTIC
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN ABDOMINAL CAVITY

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84	21-MOV-89 612 Arcinogenic
NUMBER: 309/PRETEST= 309 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD Death: 01-jul-85 study day of Death: 526 study week of Death: 76 terminal body weight:	
TISSUE / MISTOPATHOLOGIC FINDINGS COPIC TISSUE DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	1 + 1 0 0
KIDNEY TISSUE IS AUTOLYTIC	
URINARY BLADDER	
UTERUS TISSUE IS AUTOLYTIC	
OVARIES	
DUODENUMTISSUE IS AUTOLYTIC	
JEJUNUM	
ILEUM TISSUE IS AUTOLYTIC	
PANCREAS TISSUE IS AUTOLYTIC	
CECUM TISSUE IS AUTOLYTIC	
RECTUM TISSUE IS AUTOLYTIC	
COLOM TISSUE IS AUTOLYTIC	
STOMACH TISSUE IS AUTOLYTIC	
ADREMAL TISSUE IS MISSING	
PITUITARY GLAND	
EYES & OPTIC N	
MEDIASTINUM	

K	Appendix		J (cont.):	it.):	PA	THOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	F RESEARCH GP		S	UDY STA	INDIVI ST RT DATE	STUDY START DATE: 23-JAN-84	5 P	STUDY	TYPE: CHRON	PRINTED: 21-NOV-89 PAGE: 613 STUDY TYPE: CHROMIC/2 YR CARCINGGENIC	NOV-89
ANIMAL NUMBER: 309/PRETEST= DATE OF DEATH: 01-JUL-85 STUDY DAY	309/PRETEST= -85 STUDY DAY	9.0	309 SEX: FEM OF DEATH: 526	309 SEX: FEMALE DEATH: 526	908 STU	09 SEX: FEMALE DOSE GROUP: 2 DEATH: 526 STUDY WEEK OF DEA	DOSE GROUP: 2 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 76 TERMINAL BODY WEIGHT:	SACRIFICE STATUS: FOUND DEAD 76 TERMINAL BODY WEIGHT	ID DEAD Veight:	SACRIFICE STATUS: FOUND DEAD TH: 76 TERMINAL BODY WEIGHT: 218.00 (GMS)	
TISSUE / HISTOPATHOLOGIC FINDINGS	COLC FINDINGS	0	5	-	3 7 1 2 S C E	0 8 9	OPIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >>	COMMENTS		1 1 1 1 1
MEDIASTINUM	C NEOPLASM					SECON		H ORGAN ABDO	MINAL CAVI	17	
ABDOMINAL CAVITY						MISCELLA (PRESENT)					

ADD LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344	endix J (cont.): ESEARCH STUDY STAR	ORC.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY STUDY STUDY STAFF 23-JAN-84 STUDY STAFF DATE: 23-JAN-84
ANIMAL NUMBER: 310/PRI	TEST 310 SEX: FEMALE STUDY DAY OF DEATH: 712	SACRIFICE STATU DEATH: 102 TERMINA
ORGAN NAME	<pre><< GROSS ORGAN OB KEYWORDS / PHRASES</pre>	S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS
SPLEEM PERITOMEAL CAV. LIVER	ENOMEGALY) ACE ULAR MARKINGS	· W
KIDNEY Lungs Vagina	DISCOLORATION DISCOLORATION PURULENT DISCHARGE	PRESENT GREEN/BROWN Present multiple, Red, Focal. Present yellow/green
TISSUE / MISTOPA	TISSUE / MISTOPATHOLOGIC FINDINGS	LE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	PARATHYROID	TISSUE IS MISSING
HEART	EART	NOT SPECIFIED(MODERATE)
LUNGS	UNGS	(PRESENT)
THYRUS		TISSUE IS MISSING
SPLEEN	PLEENCHRONIC -INFARCTION, CHRONIC -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(MILD)
LYMPH NODESN-LARGE GRANU-DILATED AND/OR	YMPH HODES	(PRESENT) NOT SPECIFIED (PRESENT)
LIVER		

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP., PATH SERV GP SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA **REPORT** **REPORT* **REPORT* **REPORT* **REPORT** **REPORT** **REPORT* **REPORT* **REPORT* **REPORT* **REPORT* **REPORT* **REPORT* **REPORT* **REPOR
310 SEX: FEMALE OF DEATH: 712	SACRIFICE STATU DEATH: 102 TERMINA
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED(TRACE) MULTI-FOCAL(SEVERE) MULTI-FOCAL(MODERATE) (PRESENT)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED (MILD)
PANCREASCHRONIC INFLANMATION	A SMALL GRANDLOMA IS PRESENT IN THE PANCREAS. IN AN ADJACENT AREA THERE AREAS OF GRANDLOMATOUS INFLAMMATION ACCOMPANIED BY PROLIFERATION OF MESOTHELIAL CELLS WITHIN AND ON THE SURFACE FOCAL(TRACE)
SKELETAL MUSCLE	NOT SPECIFIED (PRESENT)
SCIATIC NERVE	TISSUE IS MISSING
SKINskin	NOT SPECIFIED(MILD)
HAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS. Not specified(moderate)
ADREWALBENOWA -B- CORTICAL ADENOWA -FOCUS OF CELLULAR ALTERATION, VACUOLATED	(PRESENT) Not specified(TRACE)

Appendix	ם	(cont.):	t.)	••	PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA	KI	DIVII	DUAL	ANIM	AL	DATA			
LETTERNAW ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	1	ST	NOV.	STARI	STC STC	INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAN-84	IAL DAT	A REPO	TAC	STI	UDY T	YPE: CI	PR IRON1C/	INTED PAGE 2 YR	PRINTED: 21-MOV-89 PAGE: 616 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 310/PRETEST** DATE OF DEATH: 03-JAN-86 STUDY DAY OF	0 P	310 SEX: FEMALE DEATH: 712	FEM. 712	V.E	POSE STUE	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 226.00 (GMS)	2 IF DEAT	SACR H: 102	I FICE	STATUS:	SACR	IFICED VEIGHT:	MORIBU 22	M.0 6.00	310 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 712 STUDY WEEK OF DEATH: 102 TERMINAL BODY WEIGHT: 226.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS			-	s -	SUE	8 0	S E R	V A T	OBSERVATIONS >>>	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	CIAL	COMMEN	S 1	•	U E O B S E R V A T I O R S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PITUITARY GLAND						TISSUE IS MISSING	UE 1S	MISSIM	g						
NHOLE BODY	¥14					(PRESENT)	ENT)								
MEDIASTINUM MISCELLANEOUS TISSUE -CHRONIC INFLAMMATION						MISC	MISCELLANEOUS TIS: MULTI-FOCAL(MILD)	ONS TIE	ssue)						

pendix J (cont.):	INDIVIDUAL ANIMAL DATA
I DA	DATA REPORT GLP83009
311 SEX: FEMALE DEATH: 750	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 287.00 (GMS)
C G R O S S O R G A N O B KEYUORDS / PHRASES	
LIVER ADMESION(S) PRESENT OVARIES PARA-OVARIAN CYST(S) PRESENT	DIAPHRAGM LEFT, 1CM DIAMETER, CLEAR FLUID FILLED
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
TWYROID GLANDS	NOT SPECIFIED(TRACE)
MEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/OR CHOLANGIOFIBROSIS -MEPATITIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) HULTI-FOCAL(MILD) NOT SPECIFIED(MODERATE)
RIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
OVARIESPARA-OVARIAM CYST(S)	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) Not specified (present)
ADREMAL	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: GLP83009 STUDY STAT DATE: 23-JAN-84	PRINTED: 21-NOV-89 PR3009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUMBER: 311/PRETEST= 311 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DATE OF DEATH: 10-FEB-86 STUDY DAY OF DEATH: 108 TERMINAL BODY WEIGHT: 287.00 (GMS)	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 287.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS TISSUE / MISTOPATHOLOGIC FINDINGS DISTRIBUTIONS	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ADREMAL	NOT SPECIFIED(MILD)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE Not specified (present)

TE OF RESEARCH SERV GP	T PRI STUDY TYPE: CHRONIC/2
312 SEX: FEMALE OF DEATH: 750	AL SACRIFICE WEIGHT: 2
ORGAN MANE KEYLORDS / PNRASES SEVERITY LIVER FILUITARY GLAND FILUITARY GLAND FILUITARY GLAND FILUITARY GLAND FILUITARY GLAND FILUITARY GLAND FILUITARY GLAND	SERVATIONS >>> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT DIAPHRAGM, VENTRAL ABDOMINAL WALL PRESENT BLACK, .4CM DIAMETER
TISSUE / MISTOPATHCLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	NOT SPECIFIED(TRACE)
LYMPH NODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODE. Not specified (present)
LIVER	NOT SPECIFIED (PRESENT)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED (MODERATE)
UTERUS	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE NOTED ADJACENT NASO-LACRIMAL DUCTS.
PITUITARY GLAND	(PRESENT)

Appendix J		(cont.):	 •	PATH	PATHOLOGY INDIVIDUAL A	INDIA	IDUAL	ĩ	DATA		
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		STU	DY STAR	INDIVIDE STU	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	DATA RE	PORT	ā	uf TYPE: C	PRINTE PAG IRONIC/2 YR	PRINTED: 21-NOV-89 PAGE: 620
ANIMAL NUMBER: 312/PRETEST= DATE OF DEATM: 10-FEB-86 STUDY DAY OF	312 OF DEA	312 SEX: FEM DEATH: 750	312 SEX: FEMALE DEATH: 750	DOSE STUD	312 SEX: FEMALE DOSE GROUP: 2 DEATH: 750 STUDY WEEK OF DE	SA DEATH: 1	CRIFICE 108	STATUS: ERMINAL	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 278.00 (GMS)	FICE 278.00	SACRIFICE STATUS: FINAL SACRIFICE ATH: 108 TERMINAL BODY WEIGHT: 278.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	- d	u	3 T S S T E	3 C E	0 8 8	OBSERVATIONS >>	T I O N SEVERIT	\$ >; f) / SPE	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	, , , , , , , , , , , , , , , , , , ,	
EYES & OPTIC N	NERAL I	ZAT 10	N, SCLEI	. ≾	_	NOT SPECIFIED (PRESENT)	(PRESEN	2			
-COMPOUND RELATED INFLAMMATORY REACTION	NO				MISCELLANEOUS TISSUE NOT SPECIFIED (PRESE	MISCELLANEOUS TISSUE Not specified (present)	TISSUE (PRESENI	٤			

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
F RESEARCH GP STUDY STAR	DATA REPORT GLP83009 ST
UNBER: 313/PRETEST# 313 SEX: FENALE DEATH: 10-FEB-86 STUDY DAY OF DEATH: 750	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 235.00 (GMS)
٧	GROSS FREE-TEXT COMMENTS
LIVER ADMISSION(S) PRESENT LIVER DISCOLORATION PRESENT UTERUS CYST(S) PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL BLACK, FOCAL, .2CM DIAMETER, LEFT LATERAL LOBE Medial Left Horn3cm Diameter
POLYP ARY GLAND ENLARGED	DIATAL RIGHT HORN, .3CM DIAMETER Dark Red, .4cm Diameter
C MISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	. NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(MILD)
LUNGS	. NOT SPECIFIED(TRACE)
THYMUS	TISSUE IS MISSING
LYMPH MODES	. REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. Mesenteric and mediastinal nodes are missing. Not specified (present)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION -MEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)
KIDMEYPROGRESSIVE REMAL DISEASE	. NOT SPECIFIED(MILD)

J (cont.):	AL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	0 5
313/PRETEST# 313 SEX: FEMALE 10-FEB-86 STUDY DAY OF DEATH: 750	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 235.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS	NO POLYP WAS OBSERVED MICROSCOPICALLY IN THE UTERUS. THERE IS Large Cystic Dilatation of Several Uterine Glands present. Not specified (present)
PANCREAS	NOT SPECIFIED(MODERATE) (PRESENT)
MANMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCTS. Not specified(trace)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
DIAPHRAGM	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix J (cont.): LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84 STUDY START DATE: CARCHOGENIC
314 FEB-86	DOSE GROUP STUDY WEEK
KEYWORDS / PHRASES ENLARGED ADMESTON(S) ARSCESS ASSESS ARSCESS (FS)	OBSERVATIONS>> OBSEVERITY GROSS FREE-TEXT COMMENTS PRESENT DARK RED, LEFT SIDE, .4CM DIAMETER PRESENT VENTRAL ABDOMINAL WALL PRESENT FRALL PRESENT FRALL
TISSUE / HISTOPATHOLOGIC FINDINGS	
HEART	NOT SPECIFIED(TRACE)
- COMPOUND RELATED INFLAMMATORY REACTION - HEPATITIS - HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MIMERALIZATION	NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE) EADING TO MULTI-FOCAL(MILD)
KIDHEYPROGRESSIVE REMAL DISEASE	
UTERUS	
PANCREAS	

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
314 SEX: FEMALE OF DEATH: 750	DEATH
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T S O N S VV DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SKIM	MICROSCOPIC EXAMINATION OF THE LESION DESCRIBED AS AN ABSCESS IN THE SUBCUTANEOUS TISSUE NEAR THE CLITORAL GLAND DEMONSTRATED A SHALL CYSTIC CAVITY LINED BY A PROLIFERATIVE SQUAMOUS EPITHELIAL WALL AND FILLED WITH KERATIM. THIS LESION IS COMPATIBLE WITH A KERATOACANTHOMA.
MAMMARY GLANDS	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	. CAVITY, SINUSES, NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	
AD SEBACIOUS TISSUE IS MISSING	IISSUE IS MISSING

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	INDIVIDUAL DATA REPORT GLP83009
315 SEX: FEMALE IF DEATH: 750	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 255.00 (GMS)
C G R O S S O R G A N O B S KEYWORDS / PHRASES SE	ERVATIONS >> Verity gross free-text comments
LIVER ADMESION(S) PRESENT	DIAPHRAGM
C NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
EXORBITAL LACRIMACINAR ATROPHY	NOT SPECIFIED(TRACE)
-CARDIONYOPATHY -MEDIAL NYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LYMPH NODES	REACTIVE HYPERPLASIA IS NOTED IN CERVICAL, MEDIASTINAL AND MESENTERIC NODES.
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -PERIPORTAL MONONUCLEAR CELLULAR INFILTRATION -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
FROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
MAMMARY GLANDS	. NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
= _	E D
ANIMAL NUMBER: 315/PRETEST* 315 SEX: FEMALE DOSE GI DATE OF DEATH: 10-FEB-86 STUDY DAY OF DEATH: 750 STUDY I	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 255.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MOSE/TURBINATES	
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	
-CORNEAL MINERALIZATION -CORNEAL VASCULARIZATION -CHROMIC COMJUNCTIVITIS	ON SLIDES OF THE EYES THEMSELVES.JUNCTIVAL MEMBRANE IS PRESENT NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE) NOT SPECIFIED (MODERATE)

Cont.): PA	INDIVIDUAI DATA REPORT GLP83009
316 SEX: FENALE IF DEATH: 750	SACRIFICE DEATH: 108 T
C G R O S S O R G A M O B S E R V KEYWORDS / PHRASES SEVERITY	
LIVER ADHESION(S) PRESENT PITUITARY GLAND DISCOLORATION PRESENT OVARIES PARA-OVARIAN CYST(S) PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL DARK RED, .2CM DIAMETER RIGHT, 1.25CM DIAMETER, CLEAR FLUID FILLED
C NICROSCOPIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
-CARDIONYOPATHY -HEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUNGSPULNONARY ARTERIES	NOT SPECIFIED(TRACE)
LYMPM MODES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODE. Not specified (present)
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MIMERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
OVARIESPARA-OVARIAN CYST(S)	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD)

Appendix J (cont.): PATHO LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAIFISCHER-344	INDIVIDUAL ANI DATA REPORT GLP83009
/PRETEST* 316 SEX: FEMALE STUDY DAY OF DEATH: 750	STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 275.00 (GMS)
TISSUE / WISTOPATHOLOGIC FINDINGS	
NOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT THE NASO-LACRIMAL DUCT. Not specified(Mild)
ABREMAL	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC N	NOT SPECIFIED(MILD)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY RFACTION	MISCELLANEOUS TISSUE Not specified (present)

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDIVI ST STUDY START DATE	DATA REPORT GLP83009 STUDY TYPE: CH
MALE DOS	
R G A R O B	
GLAND	DIAPHRAGM AND VENTRAL ABDOMINAL WALL .BCM DIAMETER, RED/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAIN TUNOR INVASION	(PRESENT)
THYROID GLANDS	. WOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(MILD)
LIVER	NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE) MULTI-FOCAL(WILD)
FROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MODERATE)
MAMMARY GLANDS	WOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	, (PRESENT)
EYES & OPTIC M	

PRINTED: 21-NOV-89 PAGE: 631 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	IFFICED MORIBUND WEIGHT: 208.00 (GMS)	COMMENTS
DATA REPORT GLP83009 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 208.00 (GMS)	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	SIB SEX: FEMALE DEATH: 722	OPIC TISSUE OBSE
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCNER-344	ANIMAL MUMBER: 318/PRETEST* DATE OF DEATM: 13-JAM-66 STUDY DAY OF	TISSUE / MISTOPATMOLOGIC FINDINGS

NOT SPECIFIED (PRESENT)

App. Letterhan arny institute of R. DIV of Res Supp, Path Serv GP Species: Rat/Fischer-344	Appendix Letterman army institute of research DIV of Res Supp, path serv GP Species: Rat/Fischer-344	J (cont.):		INDIVIDUAL AND DATA REPORT GLP83009	AL ANIMAL DATA PRINTED: 21-NOV-89 PAGE: 632 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 319/ DATE OF DEATH: 21-JAN-86	ANIMAL MUMBER: 319/PRETEST= DATE OF DEATH: 21-JAN-86 STUDY DAY G	319 SEX:	DOSE GROUP STUDY WEEK	DOSE GROUP: 2 SACRIFICE STATUS: STUDY WEEK OF DEATH: 105 TERMINAL B	SACRIFICE STATUS: SACRIFICED MORIBUND 105 TERMINAL BODY WEIGHT: 197.00 (GMS)
ORGAN KAME	CRON NAME KEYWORDS / PHRA	D R G A R O B	* _	N S >> FREE-TEXT COMMENTS	
EYES & OPTIC N. OVARIES LIVER PITUITARY GLAND	CRUSTY MATERIAL PARA-OVARIAN CY ADHESION(S) ENLARGED	IAL, PERIORBITAL Cyst(s)	PRESENT RED PRESENT YELL PRESENT DIAP PRESENT DARK	RED YELLOW FLUID FILLED, 1.5CM DIAMETER, LEFT DIAPHRAGM DARK RED, .6 X .5CM	AMETER, LEFT
TISSUE / NISTOPATHOLOGIC	M I C R O FINDINGS	S C O P I C T I S	S U E 0 B	S E R V A T I O N S RIBUTION (SEVERITY) /	>> SPECIAL COMMENTS
BRAIN	RAIM			(PRESENT)	
THYROID GLANDS -PARA-FOLLICUL/	HYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C"	·c, cell, light cell)	•	NOT SPECIFIED(TRACE)	
PARATHYROID				TISSUE IS MISSING	
SALIVARY GLAND -INFLAMMATION,	ALIVARY GLAND			NOT SPECIFIED (MODERATE)	
HEART	ОНТОРАТИТ			NOT SPECIFIED(TRACE)	
LYMPH MODES	PERPLASIA		•	REACTIVE HYPERPLASIA NOTED IN CERVICAL LYMPH NODE NOT SPECIFIED (PRESENT)	CERVICAL LYMPH NODE.
LIVERCOMPOUND RELAT	IVER	NOI		NOT SPECIFIED (PRESENT)	
FIDNEYPROGRESSIVE RE	IDMEYPROGRESSIVE REMAL DISEASE		:	NOT SPECIFIED(TRACE)	
OVARIES					

Appendix J (cont.): PAT	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 319/PRETEST# 319 SEX: FEMALE DOS DATE OF DEATH: 21-JAN-86 STUDY DAY OF DEATH: 730 STU	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 105 TERMINAL BODY WEIGHT: 197.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	0 B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
OVARIES	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD) HOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
DIAPKRAGM	MISCELLANEOUS TISSUE THERE IS A SMALL GRANULOMATOUS ADHESION CONTAINING THE TEST MATERIAL ADHERING TO THE LIVER CAPSULE. NO TISSUE FROM THE DIAPHRAGM IS INCLUDED IN THIS PLANE OF SECTION ALTHOUGH A DIAPHRAGMATIC ADHESION WAS OBSERVED AND RECORDED ON GROSS EXAM.

LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATM SE SPECIES: RAT/FISCHER-344	Appendlx of Research rv GP	(cont.):	NAT.): PATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84		DUAL or 1	ANIMAL STUDY 1	DATA TYPE: CHROWI	PRINTED: 21-NOV-89 PAGE: 635 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 321/P	ANIMAL NUMBER: 321/PRETEST= DATE OF DEATH: 12-FEB-86 STUDY DAY OI	321 SEX: FEMALE OF DEATH: 752	DOSE GROUP: 2 STUDY WEEK OF	; •	SACRIFICE S	TATUS: FINAL SHINAL SHI	SACRIFICE STATUS: FINAL SACRIFICE 108 TERMINAL BODY WEIGHT:	E 271.00 (GMS)
ORGAN NAME	ORGAN WAME C G R O S S O R KEYLORDS / PHRASES	ORGAN OB	SEVERITY (T I O N S GROSS FREE	T I O N S >> GROSS FREE-TEXT COMMENTS	· · · · · · · · · · · · · · · · · · ·		
LIVER Liver Pituitary Gland	ADMESION(S) MODULE(S) ENLARGEO		PRESENT PRESENT PRESENT	LEFT VENTRA .6CM DIANET	LEFT VENTRAL ABDOMINAL WALL .6cm diameter, medial lobe .4cm diameter, focal black discoloration,	WALL OBE Ack discold	JRATION, .10	.1CM DIAMETER
TISSUE / NISTOPA	C M I C R O S C TISSUE / MISTOPATHOLOGIC FINDINGS	0 9 1 6 1 1 8	SUE	O B S E R V	O B S E R V A T I O N S DISTRIBUTION (SEVERITY)	: <:	SPECIAL COMMENTS	
SALIVARY GLANDATROPHY AND LOSS OF AC-	ALIVARY GLAND			FOCAL (TRACE) FOCAL (TRACE)	00			
EXORBITAL LACRIM -SUBACUTE INFLAM	XORBITAL LACRIMSUBACUTE INFLAMMATION		:	MULTI-FOCAL(TRACE)	(TRACE)			
HEART	EARTCARDIONYOPATHY		:	NOT SPECIFIED(MILD)	ED(MILD)			
LYMPH NODES	LYMPH MODES			EACTIVE HY OT SPECIFI	REACTIVE HYPERPLASIA MOI Not specified (present)	TED IN CERV	/ICAL AND ME	REACTIVE HYPERPLASIA NOTED IN CERVICAL AND MESENTERIC NODES. Not specified (present)
-COMPOUND RELATED INFLAMMA- HEPATITIS -FOCUS OF CELLULAR ALTERAT -HEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODUL! -HEPATOCYTE COALESCING MICI	-COMPOUND RELATED INFLAMMATORY REACTION -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHI -HEPATOCYTIC VACUOLIZATION -BENIGN HYPERPLASTIC NODULE(S) -HEPATOCYTE COALESCING MICROVESICULAR NECROSIS AND MINERALIZATION	ILLIC (FATTY) CHANGE LEADING TO	:	NOT SPECIFIED (PRESE MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)	NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)			
KIDNEY	SSIVE RENAL DISEASE		•	NOT SPECIFIED(MILD)	ED (N1LD)			

LETTERNAM ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DATA REPORT PRINTED: 21-MOV-69 DIV OF RES SUPP. PARM SERV GP STUDY START DATE: 23-JAM-84 SPECIES: RATATISER-344 SPECIES: RATATIS	PRINTED: 21-NOV-69 PAGE: 636 STUDY TYPE: CHRONIC/2 YR CARCINGENIC SACRIFICE STATUS: FINAL SACRIFICE 1: 106 TERNIMAL BODY WEIGHT: 271.00 (GMS) NA (SEVERITY) / SPECIAL COMMENTS ED (PRESENT) FILTRATE INVOLVES VENTRAL TURBINATE AREA BILATERALLY. ED (TRACE)
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	

LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344) (5		STUDY ST		STUDY STUDY (TE: 23	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009	EPORT 09	STUDY	TUOY 17	PRINTED: 21-NOV-89 PAGE: 637 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: PAGE: NIC/2 YR CA	NTED: 21-1 PAGE: 637	21-NOV-89 637 IRCINOGENIC
AMIMAL NUMBER: 322/ DATE OF DEATH: 29-JAN-86	322/PRETEST= 9-JAN-86 STUDY DAY	: 6	322 SEX: FEI 0F DEATH: 738	322 SEX: FEMALE DEATH: 738		DOSE GROUP: 2 STUDY WEEK OF	OUP: 2 EEK OF	DOSE GROUP: 2 SACRI STUDY WEEK OF DEATH: 106	ACRIFICE 106 T	E STATUS: SACRIFICED I	SACRI BODY L	SACRIFICE STATUS: SACRIFICED MORIBUND 106 TERMINAL BODY WEIGHT: 233.00 (GMS)	RIBUND 233.0	BUND 233.00 (GMS)	
ORGAN NAME	ORGAN NAME KEYWORDS / PHRASES	PHRAS	ORGAN ASES		O B S I	S E R V A SEVERITY	T I O N S GROSS FREI	N S >>	R V A T I O N S >> RITY GROSS FREE-TEXT COMMENTS	NTS		•	* * * * * * * * * * * * * * *		•
LIVER KIDNEY PITUITARY GLAND	ADHESION(S) GRANULAR SURFA ENLARGED) URFACE	•			PRESENT PRESENT PRESENT	VENTRA DARK . 7CM D	L ABDOM	VENTRAL ABDOMINAL WALL DARK .7CM DIAMETER, DARK RED						
TISSUE / HISTOPATHOLOGIC F	C M I C R O S C TISSUE / MISTOPATHOLOGIC FLADINGS	S	0 1 0	-	S	U E	0 8 S DISTRI	O B S E R V A T I O	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	X	ECIAL C	SPECIAL COMMENTS			
BRAIN	CEPHALUS FACTION NECROSIS	•	•		•			MILD HYDROCEPHALUS ADJACENT TO DILATED NOT SPECIFIED (PRESINOT SPECIFIED(MILD)	MILD HYDROCEPHALUS IS N ADJACENT TO DILATED LAT NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)	NOTED.	THERE Ventric	MILD HYDROCEPHALUS IS NOTED. THERE IS LIQUIFACTION NECROSIS ADJACENT TO DILATED LATERAL VENTRICLES. NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD)	11 FACT 10	X X ECR	\$1\$0
THYROID GLANDS					•	:	THIS S RECOGN TISSUE	ECTION I	IS VERY D RECUT ULD PROB	THICK ALTHIS BLO	ND HAS OCK WOU T RESUL	THIS SECTION IS VERY THICK AND HAS MANY ARTIFACTS. NO LES RECOGNIZED. TO RECUT THIS BLOCK WOULD PROBABLY EXHAUST THE TISSUE AND WOULD PROBABLY NOT RESULT IN ANY USEFUL DATA.	IFACTS. BLY EXH	NO LAUST T	NO LESION IS JST THE JATA.
-CARDIOMYOPATHY					•		NOT SP	NOT SPECIFIED(TRACE)	(TRACE)						
LUNGS	UNGS	RIES	:		•		NOT SP	NOT SPECIFIED(TRACE) FOCAL (PRESENT)	(TRACE) I)						
LYMPH NODES	YMPH MODES	SINUSES					NOT SP	ECIFIED	NOT SPECIFIED (PRESENT)	Ē					
-COMPOUND RELATED INFLAMMA- BILE DUCTULE EPITHELIAL N- NEPATOCYTIC VACUOLIZATION -TELANGIECTASIS -FIBROSIS CAPSULAR NO COMP	-COMPOUND RELATED INFLAMMATORY REACTI-BILE DUCTULE EPITHELIAL HYPERPLASIA-HEPATOCYTIC VACUOLIZATIOM -TELANGIECTASIS -FIBROSIS CAPSULAR NO COMPOUND	ACTION SIA ANI)/OR CI	ON AND/OR CHOLANGIOFIBROSIS	OF IBRO	: : s:	NOT SPECIFIE NOT SPECIFIE NOT SPECIFIE FOCAL (TRACE) NOT SPECIFIE	SPECIFIED (PRESE SPECIFIED(MILD) SPECIFIED(MILD) IN (TRACE) SPECIFIED (PRESE	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) FOCAL(TRACE) NOT SPECIFIED	Ē E					

Appendix J (cont.): PATHOLOGY LETTERHAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP33009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL MUNBER: 322/PRETEST 322 SEX: FEHALE DOSE GI DATE OF DEATH: 29-JAN-86 STUDY DAY OF DEATH: 738 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 106 TERMINAL BODY WEIGHT: 233.00 (GMS)
CROSCOPIC TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
PANCREAS	FOCAL (TRACE)
SCIATIC NERVE	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED (MARKED)
ADREMAL	MULTI-FOCAL(MILD)
PITUITARY GLAND	

	Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY II DIV OF RES SUPP, SPECIES: RAT/FIS	STITUTE OF RESEARCH PATH SERV GP HER-344 STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: C
ANIMAL NUMBER: DATE OF DEATH: 13	323 SEX: FEMALE OF DEATH: 600	DOSE GROUP: 2 SACRÍFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 86 TERMINAL BODY WEIGHT: 223.00 (GMS)
ORGAN NAME	S O R G A M O B	S E R V A T I O M S ->- SEVERITY GROSS FREE-TEXT COMMENTS
SKIN		LEFT VENTRAL SHOULDER AREA, FIRM, WHITE, 1CM DIAMETER RIGHT, RED, FOCAL, .2CM DIAMETER
ADREMAL Liver Kiomey	ANKAGE AND ANKAGE ANKAGE AND ANKAGE AN	LEFT, LOUR DIAPHRAGM LIGHT BROWN WITH MULTIPLE PINPOINT RED FOCI.
TISSUE / HISTOPAT	C NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS -8- PARA-FOLLIC	HYROID GLANDS	(PRESENT)
EXORBITAL LACRIM - ACINAR ATROPHY		NOT SPECIFIED(TRACE)
HEART -CARDIONYOPATHY -MEDIAL NYPERTRO	-CARDIONYOPATHY -MEDIAL NYPERTROPHY OF MUSCULAR ARTERIES	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	UNGSPNEUMONIA, INTERSTITIAL, CHRONIC	MULTI-FOCAL(MILD)
LYMPH NODESRED BLOOD CEELS -MEDULLARY SINUS	NODES	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODE. Not Specified (present)
LIVER	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NECROSIS, PERIACINAR	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) MULTI-FOCAL(MODERATE)
KIDNEY		

DATA	
ANIMAL	
INDIVIDUAL	
PATHOLOGY	
(cont.):	
pendix J	

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL WUMBER: 323/PRETEST= 323 SEX: FEMALE DOSE GR DATE OF DEATH: 13-SEP-85 STUDY DAY OF DEATH: 600 STUDY W	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 86 TERMINAL BOOT WEIGHT: 223.00 (GMS)
	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDMEY	NOT SPECIFIED (MILD)
URIMARY BLADDER	DIFFUSE(TRACE)
SCIATIC MERVE	TISSUE IS MISSING
MAMMARY GLANDS	THE SUBCUTANEOUS MASS IN THE LEFT SHOULDER AREA IS A MAMMARY ADENOCARCINOMA. IT WAS CODED UNDER MAMMARY GLAND. NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
ADRENAL	NOT SPECIFIED(MILD) (PRESENT)
EYES & OPTIC M	THE LENS IS MISSING FROM BOTH EYE SECTIONS.
THORAX	MISCELLANEOUS TISSUE Mass on the Left Ventral Shoulder area is a mammary adenoca. It was coded under mammary gland.
DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY START DA	
ANIMAL WUMBER: 325/PRETEST= DATE OF DEATH: 12-FEB-86 STUDY DAY	PRETEST 325 SEX: FEMALE STUDY DAY OF DEATH: 752	
ORGAN NAME KEYWORD: / PHI	ORGAN OB	
LIVER PITUITARY GLAND	ADMESTON(\$) DISCOLORATION PRESENT	ENT DIAPHRAGH, VENTRAL ABDOMINAL WALL ENT FOCAL, BLACK, .2CM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	0860916 71880	E O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART		NOT SPECIFIED(MILD)
LUNGS	HONARY ARTERIES	NOT SPECIFIED(TRACE)
LYMPH NODES		REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES.
-COMPOUND RELATED INFLAMMATORY REACTI -BILE DUCTULE EPITHELIAL HYPERPLASIA -NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOP -NEPATOCYTE COALESCING MICROVESICULAR MECROSIS AND MINERALIZATION	ANNATORY REACTION AL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS ERATION - BASOPHILIC MICROVESICULAR (FATTY) CHANGE LEADING TO	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) HULTI-FOCAL(TRACE) FOCAL(TRACE) TO NOT SPECIFIED(MILD)
PROGRESSIVE RENAL DISEASE	ASE	MOT SPECIFIED(TRACE)
MAMMARY GLANDS	D/OR HYPERTROPHY OF THE ACINAR TISSUE	SECTION #15 CONTAINS NO MAMMARY TISSUE. DIAGNOSIS OF ACINAR HYPERPLASIA IS BASED ON MAMMARY TISSUE PRESENT IN SECTION #4.
MOSE/TURBINATES	L INFILTRATION, NASAL CAVITY, SINUSES,	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCT.

Appendix	J (cont.):	PATHOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	IMAL	DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jan-84	و ۾	STUDY 1	PRINTED: 21-MOV-89 PAGE: 643 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 325/PRETEST= DATE OF DEATH: 12-FEB-86 STUDY DAY OF	325 SEX: FEMALE OF DEATH: 752	DOSE STUDY	SACRIFICE STATUS: FINAL SACRIFICE DEATH: 108 TERMINAL BODY WEIGHT:	US: FINA	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 246.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS		•	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	>> SPECIAL	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ADREMAL	LATED		NOT SPECIFIED(TRACE)		
EYES & OPTIC N	, UNILATERAL OR BIL!	TERAL NOT SP	JAILATERAL OR BILATERAL NOT SPECIFIED (MODERATE)	ECTION #	19A.
- COMPOUND RELATED INFLAMMATORY REACTION	IOM NOT SPECIFIED (DBESSE)	MISCELL NOT SP	MISCELLANEOUS TISSUE		

Appendix J (cont.): PATHOLOGY	X INDIVIDUAL ANIMAL DATA
INDIVIDU STUD STUDY START DATE:	DATA REPORT GLP83009 STUDY TYPE: CHRO
326 SEX: FEMALE Y OF DEATH: 752	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 238.00 (GMS)
ORGAN OBSERVAT	
PARA-OVARIAN CYST(S) PRESENT ADHESION(S) PRESENT	BILATERAL, LEFT 1.5CM DIAMETER, RIGHT 1CM DIAMETER Diaphragh, Ventral abdominal wall
C M I C M O S C O P I C T I S S U E O B T S S U E O B T S S U E O B T S S U E O B T S S U E O B T S S U E O B S T S U E O B S T S U E O B S T S U E O B S U	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONMENTS
PARATHYROLD TISS	TISSUE IS MISSING
LACRIMAL GLAND	MULTI-FOCAL(TRACE)
MEART	NOT SPECIFIED(MILD)
LUNGSNINERALIZATION OF PULMONARY ARTERIES -ALVEOLAR HEMORRHAGE	NOT SPECIFIED(TRACE) Multi-focal (Present)
LYMPH NODES REACH PRESENTING AND/OR ERYTHROPHAGOCYTOSIS WITHIN NOT MEDIIIADY SIMILES	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES. PIGMENT IS Present in mediastinal node. Not specified (present)
NIA SIA	NOT SPECIFIED (PRESENT)
LIVERCOMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOTNEPATITISHEPATICYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MULT NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) HULTI-FOCAL(MILD) MULTI-FOCAL(MODERATE)
KIDMEY	

STUDY STAR	DATA REPORT GLP83009 STUDY
ANIMAL NUMBER: 326/PRETEST= 326 SEX: FEMALE DOSE GROUP: 2 DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 238.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
OVARIESPARA-OVARIAM CYST(S)	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT TO NASO-LACRINAL DUCT. Sinuses, not specified(Mild)
ADREMAL	. NOT SPECIFIED (PRESENT)
EYES & OPTIC M	CONJUNCTIVITIS IS PRESENT IN TISSUE ATTACHED TO THE LACRIMAL Gland in Section #3. No conjunctival tissue is present in
-METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA -CHROYIC CONJUNCTIVITIS	SECTIONS OF EYES. THE LENS IS NOT PRESENT IN SECTION #19A. Not specified (present) Not specified(trace)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGG
327 SEX: FEMALE 35 DEATH: 752	2 SACRIFICE STATUS OF DEATH: 108 TERMINAL
*	A T I O N S >> GROSS FREE-TEXT COMMENTS
LIVER ADMESION(S) PRESENT	DIAPHRAGM
TISSUE / NISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	. MULTI-FOCAL(MILD)
MEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
LUMGS	NOT SPECIFIED(TRACE)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MIMERALIZATION	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(MODERATE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
UTERUSLWPHOCYTIC INFILTRATE	FOCAL(TRACE)
PANCREAS	MULTI-FOCAL(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(MILD)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY START DATE: 23-JAN-84 SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	ANIMAL NUMBER: 327/PRETEST= 327 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE Date of Death: 12-Feb-86 Study Day of Death: 752 Study Week of Death: 108 Terminal Body Weight: 269.00 (GMS)	TISSUE / MISTOPATHOLOGIC FINDINGS OBSERVATION SEVERITY) / SPECIAL COMMENTS	MAMMARY GLANDS
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NOT SPECIFIED (PRESENT)

-CORTICAL NODULAR HYPERPLASIA

	Appendix	J (cont.):	PATHOLOGY IN	INDIVIDUAL ANIMAL	DATA
LETTERMAN ARMY INSTITUTE OF RI DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INSTITUTE OF RESEARCH P. PATH SERV GP ISCHER-344	STUDY START	INDIVIDUAL ANIMAL DA STUDY NUMBER: GI STUDY START DATE: 23-JAN-84	EPORT 09	F 5
ANIMAL NUMBER: 326/ DATE OF DEATH: 12-FEB-86	PRETEST= STUDY DAY	328 SE OF DEATH	GROUP	SACRIFICE STATUS: FINAL SACRIFICE DEATH: 108 TERMINAL BODY WEIGHT:	AL SACRIFICE WEIGHT: 228.00 (GMS)
ORGAN NAME	ORGAN MAME KEYNORDS / PNR	ORGAN OB	- ¥	T I O M S >> GROSS FREE-TEXT COMMENTS	
LIVER UTERUS	ADMESION(S) HYDROMETRA	! !	PRESENT VENTRAL A PRESENT BILATERAL	VENTRAL ABDOMINAL WALL Bilateral	
TISSUE / HISTOP	<pre></pre>	0 0	S U E O B S E R DISTRIBUT	V A T 1 O N S 10N (SEVERITY) /	>> SPECIAL COMMENTS
THYROID GLANDS			TISSUE IS MISSING	DNISSING	
PARATHYROID			TISSUE IS MISSING	DNISSING	
HEART	EARTCARDIOMYOPATHY		NOT SPECI	NOT SPECIFIED (MODERATE)	
LUNGS	UNGS		NOT SPECI	NOT SPECIFIED(TRACE)	
LYMPH MODES	YMPM MODES		:	REACTIVE HYPERPLASIA NOTED IN CERVICAL NODES NOT SPECIFIED (PRESENT)	/ICAL WODES.
-COMPOUND RELA-BILE DUCTULE -NEPATITIS -NEPATOCYTE CO	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AN -NEPATITIS -NEPATOCYTE COALESCING MICROVESICULAR (NECROSIS AND MINERALIZATION	ON AND/OR CHOLANGIOFIBROSIS (FATTY) CHANGE LEADING TO	NOT NOT NUT NUT NUT NUT NUT NUT NUT NUT NUT	SPECIFIED (PRESENT) SPECIFIED(TRACE) TI-FOCAL(MILD) TI-FOCAL(MILD)	
KIDNEY	IDNEYPROGRESSIVE RENAL DISEASE		NOT SPECI	NOT SPECIFIED (MODERATE)	
UTERUSDILATATION OF -CYSTIC DILATA	TERUSDILATATION OF THE UTERINE LUMEN (HYDROMETRA)	ROMETRA) GLANDS	NOT SPECIFIED NOT SPECIFIED	FIED (PRESENT) FIED (PRESENT)	
HAMMARY GLANDS			•		

Appendix	ם	(cont.):		_	PATH	9070	H	NDIA	IDUAL	PATHOLOGY INDIVIDUAL ANIMAL DATA	Y.	DATA			
		STI	10V ST/	INO	STUD STUD	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	4AL D.	ATA RE LP8300	PORT 9	ST	UDY T	PRINTED: 21-NOV-89 PAGE: 649 Study Type: Chronic/2 yr Carcinogenic	PAGE PAGE 72 YR	PRINTED: 21-NOV-89 PAGE: 649 C/2 YR CARCINGENIO	ں
ANIMAL NUMBER: 328/PRETESTS DATE OF DEATH: 12-FEB-86 STUDY DAY OF		328 SEX: FEM DEATH: 752	328 SEX: FEMALE F DEATH: 752		DOSE	328 SEX: FEMALE DOSE GROUP: 2 DEATH: 752 STUDY WEEK OF DEAT	2 0f 0E	SA ATH: 1	CRIFICE 08 T	STATUS:	FINA	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 228.00 (GMS)	28.00	(GMS)	
TISSUE / MISTOPATHOLOGIC FINDINGS		Ü	PIC TISSUE	S	C. E.	9 5 6	S E	R V A T10N (O B S E R V A T T O N S >> DISTRIBUTION (SEVERITY) / SPI	O S S E R V A T T O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	פוער פ	A T T O M S >> (SEVERITY) / SPECIAL COMMENTS		1 5 6 6 6 6 6 7 8	
MAMMARY GLANDS		ACINAR TISSUE TULES	ACIMAR TISSUE				SPEC	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESI	SPECIFIED(MILD) SPECIFIED (PRESENT)	2					
BONE, FEMUR				:	:		SPEC	1 F 1 E D	NOT SPECIFIED (PRESENT)	2					
ADREMAL	ATED.		ED	:			SPEC	I F I ED (NOT SPECIFIED (TRACE)						

MIMAL ATE OF	NUMBER: F DEATH:	ANIMAL NUMBER: 329/PRETEST- DATE OF DEATH: 03-DEC-85 STUDY	9/PRET	/PRETEST= STUDY DAY	DAY	32 0F 0	329 SEX: FEMALE DEATH: 681	FEN/			DOSE GROUP: 2 SACI	: 2 Of DE	EATH:	SACRIFICE STATUS: SACRIFICED MORIBUND 98 TERMINAL BODY WEIGHT: 201.	FICES	TATUS	SACI BODY	E STATUS: SACRIFICED (TERMINAL BODY WEIGHT:	D MOR	18UND 201.00 (GMS)	M9) 0	ŝ
ORGAN NAME	IANE	, , , , , , , , , , , , , , , , , , ,	G R O S KEYWORDS	G R O S S O R KEYWORDS / PWRASES	10 X	•	¥ 5		89	S E R V A SEVERITY	: -	T I O N S GROSS FRE	N S >> FREE-TEXT	T I O N S >> GROSS FREE-TEXT COMMENTS	OMMENT.	ENTS				• • • •	•	• • • •
SPLEEN LIVER LIVER UTERUS	•		ENLA! ADHE! GRANL	ENLARGEALY) ADHESION(S) GRANULAR SURFACE DISTENDED	(SPLES)	NOMES.	(AFA)		- -	MARKED PRESENT PRESENT PRESERT	•	6 X 1.5 X 1CM DIAPHRAGM, VEI DISTAL END OF	M. TCI	6 X 1.5 X 1CM BIAPHRAGM, VENTRAL ABDOMINAL WALL DISTAL END OF RIGHT HORM, SEGMENTAL, BMM DIAMETER	1 ABDO	- HINAL N, SE	WALL GMENT	NE, BM	N DIA	E TER		
ISSUE	/ H1STOP	A NISTOPATHOLOGIC FINDINGS	M 1 C FING	M I C R O FINDINGS	3 % 0	0	3 -	-	s –	S U E	00	B S E	7 V V V	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	O W S	\$ \	ECIAL	COMME	STR			
HYROIC -PARA-	THYROID GLANDS -PARA-FOLLICUL	NYROID GLANDS	HYPERF	LASIA	()	" CELL, LIGHT CELL)		GHT	ELL)		:	r spec	HFIE	NOT SPECIFIED(TRACE)	æ							
PARATHYROID											118	TISSUE IS MISSING	SHIS	SSING								•
HEART -CARDI -N- LA	EART	EARTCARDIOMYOPATHY -M- LARGE GRANULAR LYMPHOCYTE LEUKEMI	P HOCY 1	וב רבח			TASTA	110	•	A, METASTATIC	. ~	NOT SPEC (PRESENT)	: I F I E	NOT SPECIFIED(TRACE) Present)	(i)							
-N- L/	IRGE GRAN	UNGS	PHOCYT	re teu	KENI	A, METASTATIC	TASTA	211		•	CPRE	(PRESENT)	.=									
THYMUS -N- LA	IRGE GRAN	NYMUS	PHOCYT	re Leu			TASTA	110		A, METASTATIC	:	(PRESENT)	.=									
SPLEEN - INFAN - N - LA	RCTION, C	PLEEN	PHOCYT	וב רבת		A, ME	METASTATIC	110		A, METASTATIC		NOT SPEC (PRESENT)	: 1 F 1 E	NOT SPECIFIED(MILD) Present)	2							
LYMPH NODES		THE BLOOD CEELS, HEMOSIDERIN AND/OR	SIDERI	ONA N	•	ERYTH	ROPHA	 60CYT	0818	ERYTHROPHAGOCYTOSIS WITHIN		TASTAT JUN GR F SPEC	TIC LI	METASTATIC LGLL NOTED IN MEDIASTINAL BROWN GRANULAR PIGMENT IS PRESENT IN NOT SPECIFIED (PRESENT)	TEO I	N MED 1S PR	ESENT		D MESE	AND MESENTERIC NODES Mediastinal Nodes.	C KODE DDES.	S
MEDU!	MEDULLARY SINUSES N- LARGE GRANULAR	MEDULLARY SIMUSES -N- LARGE GRANULAR LYMPHOCYTE LEUKENI	PHOCYT	וב רבח	IKEM1.	A, ME	A, METASTATIC	7 I C			I (P.)	(PRESENT)	_									

. Appendix J (cont.): PATHOLOGY IND	INDIVIDUAL ANIMAL DATA
INDIVIDUAL ANIMAL STUDY WUNBER: STUDY START DATE: 23-JAN-84	DATA REPORT PRINTED: 21-NOV-89 GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
329 SEX: FEMALE DOSE GROUP: 2 IF DEATH: 681 STUDY WEEK OF	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 98 TERMINAL BODY WEIGHT: 201.00 (GMS)
C NISTOPATHOLOGIC FINDINGS ** NISTOPATHOLOGIC FINDINGS ** NISTOPATHOLOGIC FINDINGS	O 8 S E R V A T I O N S ->> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD)
KIDNEY	ED(TRACE)
UTERUS STROMAL POLYP	NOT SPECIFIED (PRESENT) PRESENT)
OVARIES(PRESENT) OVARIES(PRESENT)	
PANCREAS	
MAMMARY GLANDSNYPERTROPHY OF THE ACINAR TISSUE NOT SPECIFIED(MILD) -NYPERPLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE NOT SPECIFIED (PRES	SPECIFIED(MILD) Specified (present)
NOSE/TURBINATES	FILTRATE IS ADJACENT TO NASO-LACRIMAL DUCTS. Ed(Mild)
BONE, STERNUM	
BONE, FEMUR	
BONE VERT	

	Appe		د ر	con)	J (cont.):		PAT	HOLOG	י אָל	NDIA	LDOI	Z 7	IIMA	PATHOLOGY INDIVIDUAL ANIMAL DATA	Į,			
CRITERIAN ARM INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: ARI/FISCHER-344	PATH SERV GP HER-344	SEARCH		ST	STUDY START	TART	STUP STUP OATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	1MAL D BER: G 1-84	ATA RI LP830(19 19		STUD	PRINTED: 21-NOV-89 PAGE: 652 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	CHRON	PRINT PA 1C/2 Y	NTED: 21-M PAGE: 652 TR CARCIN	PRINTED: 21-NOV-89 PAGE: 652 C/2 YR CARCINGENIC
ANIMAL NUMBER: 329/PRETEST# DATE OF DEATH: 03-DEC-85 STUDY DAY	2		329 OF DE	329 SEX: FEM OF DEATH: 681	329 SEX: FEMALE DEATH: 681	9.1	DOSE	GROUP.	of DE	AZ ATH: 9	SACRIFICE : 98 TE	CE STAT	US: S	329 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND OF DEATH: 681 STUDY WEEK OF DEATH: 98 TERMINAL BODY WEIGHT: 201.00 (GMS)	ED MOR	18UND 201.0	BUND 201.00 (GMS)	
TISSUE / MISTOPATHOLOGIC FINDINGS	ACLOGIC FINDINGS	s	0	5	COPIC TISSUE	S S I	 	0 0	B S E	R V A	SEVER	OBSERVATIONS >>>	>> SPECI	OBSERVATIONS >>		4 4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
BONE VERT	GRANULE LYMPHOCYTE LEUKENI.	LEUKEMIA	MET	ASTAT	2		A, HETASTATIC	•	(PRESENT)									
ADRENAL	LYMPHOCYTE	LEUKENIA	HET	A, METASTATIC	2				(PRESENT)									
WHOLE BODY	IR LYMPHOCYTI	C LEUKEN	VIA	:		:	11.4	•	(PRESENT)									

DATA
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PATHOLOGY
(cont.):
Appendix J

	Appendix		FAIRCLOSS INDIVIDUAL ANIMAL DAIA
LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	PRINTED: 21-NOV-89 TUDY NUMBER: GLP83009 E: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
ANIMAL NUMBER: 330, DATE OF DEATH: 29-DEC-85	/PRETEST STUD	330 SEX: FEMALE DEATH: 707	
ORGAN NAME	C G R O S S O R G A N KEYWORDS / PHRASES		S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS
LIVER SPLEEN KIONEY PITUITARY GLAND UTERUS	ADHESION(S) ENLARGED (SPLENOMEGALY) DISCOLORATION ENLARGED GROWTH(S)/MASS(S)	ENOMEGALY) PRESENT PRESENT PRESENT S(S) PRESENT	ENT DIAPHRAGM AND ABDOMINAL WALL DE TOCAL .2CM DIAME.ER, WHITE, CAPSULAR ENT .5CM DIAMETER, BLACK/RED ENT RIGHT HORN, BROWN, .8 X .2CM
TISSUE / MISTOPAT	A M I C R O HOLOGIC FINDINGS	S C O P I C T I S S U E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS			TISSUE IS MISSING
PARATHYROID			TISSUE IS MISSING
HEARTCARDIONYOPATHY	EARTCARDIONYOPATHY -MEDIAL HYPERTROPHY OF MUSCULAR ARTERIE	RIES	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUNGS	UNGS	S IA, HETASTATIC	 Not specified(TRACE) (present)
THYNUS			TISSUE IS MISSING
SPLEEN	PLEEN	IA, METASTATIC	(PRESERT)
LYMPH NODES	PLASIA		REACTIVE HYPERPLASIA NOTED IN CERVICAL MODES. Not specified (present)
LIVER	HVER	ON-MECROTIC)	DIFFUSE(MARKED) NOT SPECIFIED(MILD)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
RCH INDI	DATA REPORT GLP83009
330 SEX: FEMALE Y OF DEATH: 707	2 SACRIFICE STATUS: SACRIFICED MORI F DEATH: 101 TERMINAL BODY WEIGHT:
C NICROSCOPIC TISSUE / NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERNECROSIS, PERIACINAR -NECROSIS, PERIACINAR -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(MODERATE) (PRESENT)
KIDNEY	NOT SPECIFIED(MILD)
UTERUS	NOT SPECIFIED (PRESENT)
STOMACH	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MARKED)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCTS. Not specified(Mild)
ADRENAL	NOT SPECIFIED(MILD) FOCAL(MILD)
PITUITARY GLAMD	. (PRESENT)
-CORMEAL MINERALIZATION -CORNEAL VASCULARIZATION -METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
THAT I BODA	:

	Appendix	ם	Cop)	(cont.):	PATE	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCMER-344	E OF RESEARCH ERV GP		ST	UDY STARI	STUB STUB F DATE:	INDIVIDUAL ANIMAL DATA REPC STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAM-84	INDIVIDUAL ANIMAL DATA REPORT Study Wumber: Glp83009 T Date: 23-jan-84	STUBY	TYPE: CHRO	PRINTED: 21-MOV-89 PAGE: 655 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	7-89 SENIC
ANIMAL NUMBER: 330/PRETEST= DATE OF DEATH: 29-DEC-85 STUDY DAY OF	330/PRETEST=	0.0	330 SEX: FEN DEATH: 707	330 SEX: FEMALE DEATH: 707	DOSE STUDY	30 SEX: FEMALE DOSE GROUP: 2 DEATH: 707 STUDY WEEK OF DEATH	SACRIFICE EATH: 101	SACRIFICE STATUS: SACRIFICED MORIBUND: 101 TERMINAL BODY WEIGHT: 213.0	RIFICED NO	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 213.04 (GMS)	:
TISSUE / MISTOPATHOLOGIC FINDINGS	* N 1 C R O S C O OGIC FINDINGS			P 1 C T 1 S S L E	S C E	O B S E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> Y) / SPECIAL	COMMENTS	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
WHOLE BODY	HOCYTIC LEUKE	Y I W				(PRESENT)	~				

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	DATA REPORT GLP83009
PRETEST 331 SEX: FEMALE STUDY DAY OF DEATH: 754	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 263.00 (GMS)
NAME KEYYORDS / PHRASES	S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS
LIVER ADRESION(S) PRESENT	DIAPHRAGM, VENTRAL ABDOMINAL WALL
C NISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
MEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(MILD)
LIVERCOMPOUND RELATED INFLAMMATORY REACTIONNEPATITISNEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD) MULTI-FOCAL(MODERATE)
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(TRACE)
PANCREASATROPHY	MULTI-FOCAL(TRACE)
HAMMARY GLAMDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT NASO-LACRIMAL DUCTS

LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 ANIMAL NUMBER: 331/PRETEST= 531 SEX: FEMALE DOSE GROUP: 2 DATE OF DEATH: 14-FEB-86 STUDY NUMBER: 23-JAN-84 ANIMAL WUMBER: 331/PRETEST= 531/PRETEST= 531/PR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 263.00 (GMS) SU E O B SE R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS HUSES, NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
DIAPHRAGM	ON NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: RAI/FISCHER-344	DATA REPORT GLP83009 STUDY TYPE: CHR
332 SEX: FEMALE OF DEATH: 572	UP: 2 SACRIFICE STA
O R G A N	A T I O M S >> CROSS FREE-TEXT COMMENTS
SUBCUTANEOUS MASS ADHESION(S)	LEFT AXILLARY REGION, SEMIFIRM 4 × 2.5 X 2.5CM VENTRAL ABDOMINAL WALL, 1CM AREA
CROSCOPIC TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
HEARTCARDIONYOPATHY	. NOT SPECIFIED(TRACE)
LYMPH NODES	REACTIVE HYPERPLASIA PRESENT IN CERVICAL MODES. NOT SPECIFIED (PRESENT)
LIVER	NOT SPECIFIED (PRESENT) MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDMEYPROGRESSIVE RENAL DISEASE	. NOT SPECIFIED(TRACE)
MAMMARY GLANDS	. THE SUBCUTANEOUS MASS IN THE LEFT AXILLARY AREA IS A MAMMARY ADENOCARCINOMA. MOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT) (PRESENT)
BONE, FEMUR	. WOT SPECIFIED (PRESENT)
PITUITARY GLAND	

Appendix	J (cont.):	: :	PATHOLO	EX I	PATHOLOGY INDIVIDUAL ANIMAL DATA	L ANIMA	L DATA		
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344			INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jan-84	NIMAL DI Mber: Gi An-84	ATA REPORT LP83009	STUD	T TYPE: CH	PRINTED PAGE IRONIC/2 YR	PRINTED: 21-NOV-89 PAGE: 659 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 332/PRETEST= DATE OF DEATH: 16-AUG-85 STUDY DAY OF		FEMALE 72	DOSE GROUP: 2 STUDY WEEK OF DEAT	P: 2 K OF DE/	SACR IN: 82	SACRIFICE STATUS: SACRIFICED MORIBUND TH: 82 TERMINAL BODY WEIGHT: 311.0	ACRIFICED OY WEIGHT:) (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	COPIC TISSUE	S -		B S E I	A 7 (SE	N S >> TY) / SPECI	AL COMMENT	1 O M S >> VERITY) / SPECIAL COMMENTS	
PITUITARY GLAND				OT SPECI	NOT SPECIFIED (PRESENT)	NT.)			
THORAX				SCELLAN E SUBCL SENOCARC	MISCELLANEOUS TISSUE THE SUBCUTANEOUS MASS IN THE LEFT AXILLARY AREA IS ADENOCARCINOMA. IT WAS CODED UNDER MAMMARY GLAND.	S IN THE LE	T AXILLAR Ider Mamma	MISCELLANEOUS TISSUE THE SUBCUTANEOUS MASS IN THE LEFT AXILLARY AREA IS A MAMMARY ADENOCARCINOMA. IT WAS CODED UNDER MAMMARY GLAND.	MAMMARY
-COMPOUND RELATED INFLAMMATORY REACTION	NOI		X :	SCELLAN	MOI SPECIFIED (PRESENT)	, E			

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Appendix J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	L DATA REPORT : GLP83009 .4 STUDY TYPE: CHR
333 SEX: FEMALE DEATH: 542	GROUP: 2 SACRIFICE STATUS WEEK OF DEATH: 78 TERMINAL
C G R O S S O R G A N O B KEYUORDS / PHRASES	R V A T I O N S RITY GROSS FRE
SPLEEN ENLARGED (SPLENOMEGALY) M SPLEEN DISCOLORATION PITUITARY GLAND DISCOLORATION	MARKED 7 X 2CM PRESENT FIVE WHITE FOCI ALONG THE MARGINS OF THE SPLEEM, .4 X .2CM PRESENT RED, FOCAL, ANTERIOR PORTION, .2CM AREA
TISSUE / MISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SALIVARY GLAND	TISSUE IS MISSING
EXORBITAL LACRIM	NOT SPECIFIED(TRACE)
NEART	NOT SPECIFIED (TRACE)
LUNGS	(PRESENT)
THYMUS	TISSUE IS MISSING
SPLEEN	NOT SPECIFIED (MODERATE) (PRESENT)
LYMPN WODES	LGLL NOTED IN MESENTERIC NODE. CERVICAL AND MEDIASTINAL NODES ARE NOT AVAILABLE FOR EXAMINATION. (PRESENT)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) (PRESENT)
KIDNEY	

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 SPECIES: STUDY START DATE: 23-JAN-64	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 T DATE: 23-JAN-84
ANIMAL MUNBER: 333/PRETEST= 333 SEX: FEMALE DO DATE OF DEATH: 17-JUL-8' STUDY DAY OF DEATH: 542 ST	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 78 TERMINAL BODY WEIGHT: 219.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
KIDNEYPROGRESSIVE REWAL DISEASE	NOT SPECIFIED(TRACE)
RECTUM	TISSUE IS MISSING
MANMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
WHOLE BODY	(PRESENT)

LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SE SPECIES: RAT/FISCHER-344	LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	INDI START DA	DATA REPORT GLP83009
ANIMAL NUMBER: 334, DATE OF DEATH: 17-JAN-86	PRETEST STUDY DAY	334 SEX: FEMALE IF DEATH: 726	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 253.00 (GMS)
ORGAN NAME	C G R O S S KEYWORDS / PHRA	ORGAN OB	: -
PERITONEAL CAV LUNGS LIVER LIVER	FLUID-FILLED DISCOLORATION ADMESION(S) PROMINENT LOBULAR MARKINGS		
PITUITARY GLAND		MORGALIZ MAKKEU PRESENT	ED (XZXICH). INT FOCAL, RED, .1CM DIAMETER
TISSUE / MISTOPATH	C M I C R O S C TISSUE / MISTOPATHOLOGIC FINDINGS	0 P . C T . S S C E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THTROID GLANDS -PARA-FOLLICUI	MYRGID GLANDS	· CELL, LIGHT CELL)	NOT SPECIFIED(TRACE)
HEDIAL HYPER	CARDIONYOPATHYMEDIAL NYPERTROPHY OF MUSCULAR ARTERI	ES	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LUNGSPNEUMONIA, I -N- LARGE GRA -ALVEOLAR KEM	UNGSPNEUMONIA, INTERSTITIAL, CHRONIC -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA -ALVEOLAR MEMORRHAGE), METASTATIC	HULTI-FOCAL(TRACE) (PRESENT) MULTI-FOCAL (PRESENT)
SPLEEN	PLEEN	i, METASTATIC	(PRESENT)
-RED BLOOD CEELS,	YMPH MODESRED BLOOD CEELS, HEMOSIDERIN AND/OR EI	RYTHROPHAGOCYTOSIS WITHIN	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODE. THIS NODE ALSO CONTAINS NUMEROUS NEOPLASTIC LYMPHOCYTES.
-N- LARGE GRA	-N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA	, METASTATIC	(PRESENT)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	TWC
ANIMAL NUMBER: 334/PRETEST# 334 SEX: FEMALE DOSE G DATE OF DEATH: 17-JAN-86 STUDY DAY OF DEATH: 726 STUDY	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 253.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> OBSERVATIONS >> OBSERION (SEVERITY) / SPECIAL COMMENTS
-COMPOUND RELATED INFLAMMATORY REACTION -COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL MYPERPLASIA AND/CR CHOLANGIGFIBROSIS -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -NECROSIS, PERIACINAR -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE) (PRESENT)
KIDNEYPROGRESSIVE REWAL DISEASE	. MOT SPECIFIED(TRACE)
MANMARY GLANDS	NOT SPECIFIED(MILD)
ADREMAL FELLULAR ALTERATION, VACUOLATED	. HULTI-FOCAL(TRACE)
EYES & OPTIC NCORNEAL WINERALIZATION	NOT SPECIFIED(TRACE)
WHOLE BODY	(PRESENT)

S6 PRETEST 336 SEX: FEMALE DOSE GRG GRG STUDY DAY OF DEATH: 471 STUDY WE G R O S S O R G A N O B S E R V A KEYWORDS / PHRASES SEVERITY CRUSTY MATERIAL, PERIORBITAL PRESENT DISCOLORATION PRESENT PRES	NSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND R V A T I O N S >> R V A T I O N S >> R I T O N S S E N O S E N O S E N O S S E N
KEYWORDS / PHRASES C N. CRUSTY MATERIAL, PERIORBITAL PRESENT ADHESION(S) DISCOLORATION PRESENT DISCOLORATION FRESENT C M I C R O S C O P I C T I S S U E STOPATHOLOGIC FINDINGS ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	A T I O N S >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
C N. CRUSTY MATERIAL, PERIORBITAL PRESENT ADHESION(S) DISCOLORATION PRESENT DISCOLORATION PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	DARK RED, BILATERAL DIAPHRAGM LEFT, BLACK, DEMARCATED, .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAMETER, DARK RED .5CM DIAPECIFIED(TRACE)
STOPATHOLOGIC FINDINGS RY TUMOR INVASION NDS ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	OBSERVAT DISTRIBUTION (S (PRESENT)
RY TUMOR INVASION NDS ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	.~ .
ICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL) PATHY CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	
CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	
CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN SINUSES	NOT SPECIFIED(TRACE)
	:
-REACTIVE MYPERPLASIA	
LIVER	NOT SPECIFIED (PRESENT) NOT SPECIFIED (TRACE)
KIDNEY NOT SPECIFIED(MIL	NOT SPECIFIED(MILD)

Cont.): P	INDIVID DATA REPOR GLP83009
336/PRETEST= 336 SEX: FEMALE Y-85 STUDY DAY OF DEATH: 471	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 68 TERMINAL BODY WEIGHT: 181.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
MAMMARY GLANDS	NOT SPECIFIED(MODER/TE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS. Not specified(mild)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N.	CHROWIC COMJUNCTIVITIS NOTED IN A FAIRLY LARGE SEGMENT OF THE COMJUNCTIVA THAT IS ATTACHED TO THE LACRIMAL GLAND IN SECTION #4. HO COMJUNCTIVA DAY INCLIDED DITH FITHER FYE SECTION
-METAPLASTIC BONE FORMATION AND/OR MINERALIZATION, SCLERA -Chronic conjunctivitis	NOT SPECIFIED (PRESENT) NOT SPECIFIED (MILD)
A A A A A A A A A A A A A A A A A A A	THERE ARE NO LISIONS IN ANY OF THE STRUCTURES OF THE EAR. HOWEVER, THERE IS NEMORRHAGE, CELLULAR INFILTRATION AND FIBROUS CONNECTIVE TISSUE PROLIFERATION IN THE MENINGES COVERING THE VENTRAL ASPECT OF THE CRANIAL CAVITY. THIS LESION IS A PART OF THE LARGE PITUITARY TUMOR REPRESENTED IN SECTION #18 AND WHICH EXTENDS INTO THE BRAIN IN SECTION #2.
DIAPHRAGH	MISCELLANEOUS TISSUE Not Specified (Present)

MAL DATA
ANIMA
INDIVIDUAL
PATHOLOGY
(cont.):
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		TOTAL THREAT TOTAL PAIN
LETTERMAN ARMY INSTITUTE DIV OF RES SUPP, PATH SEI SPECIES: RAT/FISCHER-344	OF RESEARCH RV GP STUDY STAR	DATA REPORT GLP83009
ANIMAL NUMBER: 337, DATE OF DEATH: 17-JAN-86	PRETEST 337 SEX: FEMALE STUDY DAY OF DEATH: 726	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 241.00 (GMS)
ORGAN NAME	CROSS ORGAN OBSERVA KEYWORDS / PHRASES	A T I O N S ->> GROSS FREE-TEXT COMMENTS
TIDNEY TIDNEY TIVER TIVER THYROID	DISCOLORATION GRANULAR SURFACE ADMESION(S) PROSENT PROMINENT LOBULAR MARKINGS PRESENT DISCOLORATION PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT	GREEN/BROWN DIAPHRAGM SLIGHTLY ENLARGED FOCAL, WHITE, VARIABLY SIZED, NUMBERING 16 .SCM DIAMETER, MOTTLED RED AND WHITE
TISSUE / MISTOPATHO	<pre></pre>	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS -M- PARA-FOLLIC	MYROID GLANDS	(PRESENT)
PARATHYROID	11SSUE 1S MISSING	TISSUE 1S MISSING
SALIVARY GLAND		TISSUE IS MISSING
EXORBITAL LACRIM		TISSUE IS MISSING
HEART	EART	NOT SPECIFIED(TRACE)
LUNGS	UNGS	NOT SPECIFIED(TRACE)
-RED BLOOD CEELS HEDULLARY SINUS	WODES	RBC'S AND PIGMENT PRESENT IN MEDIASTINAL NODE. Not specified (present)
-COMPOUND RELATE -FOCUS OF CELLUI	IVER	NOT SPECIFIED (PRESENT) FOCAL(TRACE)

Appendix J	Cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP SPECIES: RAI/FISCHER-344	STUDY START	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL HUNGER: 337/PRETEST# DATE OF DEATH: 17-JAN-86 STUDY DAY OF	337 SEX: FEMALE DEATH: 726	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 241.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OPIC TISSUE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(FATTY) CHANGE LEADING TO	DIFFUSE(MARKED) DIFFUSE(MODERATE)
KIDNEY		. NOT SPECIFIED(MODERATE)
MOSE/TURBINATES	IASAI	
ADREMALLIPIDOSIS		DIFFUSE(MODERATE)
PITUITARY GLAMD	NISSIN SI BISSIL TISSUE IS MISSING	. TISSUE IS MISSING
-COMPOUND RELATED INFLAMMATORY REACTION	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESE	. MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)

Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	endix J ESEARCH		PATHOLOGY. INDIVIDUAL ANIHAL STUDY NUMBER: T DATE: 23-JAN-84	INDIVIDUAL DATA REPORT GLP83009
ANIMAL NUMBER: 338 DATE OF DEATH: 28-AUG-85	/PRETEST 338 STUDY DAY OF DE	FEMALE 584	DOSE GROUP: 2 STUDY WEEK OF	SACRIFI DEATH: 84
ORGAN NAME	<pre><< G R O S S O R G A N KEYWORDS / PHRASES</pre>	8 O	S E R V A SEVERITY	
WHOLE BODY LIVER LIVER KIDNEY SPLEEN PITUITARY GLAND	JAUNDICED ADHESION(S) PROMINENT LOBULAR MARKI DISCOLORATION ENLARGED (SPLENOMEGALY) DISCOLORATION	N G S	PRESENT PRESENT PRESENT PRESENT MODERATE	SUBCUTANEOUS AND BODY FAT DIAPHRAGM, VENTRAL ABDOMINAL WALL GREEN/BROWN 4.5 x 1.5 x .5CM BLACK, FOCAL, .2CM DIAMETER
TISSUE / HISTOPATHOLOGIC FINDINGS	0 2 8 0	P I C T I S S	s u E	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART				NOT SPECIFIED(TRACE)
-MINERALIZATION OF -N- LARGE GRANDLAR	PULMONARY ARTERIES LYMPHOCYTE LEUKEMIA,	METASTATIC		NOT SPECIFIED (TRACE) (PRESENT)
THYMUS	HYMUS	METASTATIC		(PRESENT)
SPLEEN	PLEEN	METASTATIC		(PRESENT)
LYMPH MODES	YMPH NODES	METASTATIC		LGLL INVOLVES CERVICAL, MEDIASTINAL AND MESENTERIC NODES AND In many cases is present in Perinodal fat in all these Locations. (Present)
-COMPOUND RELATED -BILE DUCTULE EPITI	-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC)	D/OR CHOLANGIOFIBR	:	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) DIFFUSE(MODERATE)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
38 SEX: FEMALE DEATH: 584	DOSE GROUP: 2 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 84 TERMINAL BODY WEIGHT: 207.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT)
KIDNEY	. NOT SPECIFIED(TRACE)
URINARY BLADDER	. NOT SPECIFIED(MILD)
UTERUS	. NOT SPECIFIED(TRACE)
OVARIES	. NOT SPECIFIED(MILD)
MAMMARY GLANDS	NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	. CELLULAR INFILTRATE INVOLVES NASO-LACRIMAL DUCTS. Not specified(MILD)
PITUITARY GLAND	(PRESENT) NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

(cont.):	INDIVIDUAL DATA REPORT GLP83009
BER: 339/PRETEST# 339 SEX: FEMALE ATH: 14-FEB-86 STUDY DAY OF DEATH: 754	צבו
C R O S S O R G A N O B KEYWORDS / PHRASES	A T I O N S >> GROSS FREE-TEXT
LIVER ADHESION(S) PRESENT PRES	STOMACH, VENTRAL ABDOMINAL WALL. ONE LOOP. 5 x 1.5 x 1CM5CM DIAMETER. FOCAL, RED/BROWN, .2CM DIAMETER
A H I C R O S C O P I C T I S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(MILD)
EXORBITAL LACRIM	NOT SPECIFIED(TRACE)
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
LUNGSMINERALIZATION OF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
SPLEEN	(PRESENT)
LYMPH NODES	LGLL NOTED IN MEDIASTINAL AND MESENTERIC NODES. (PRESENT)
-COMPOUND RELATED INFLAMMATORY REACTION -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)

(cont.): stuny start	ATHOLOGY INDIVIDUAL ANIMAL DATA VIDUAL ANIMAL DATA PRINTED: 21-NOV-89 STUDY NUMBER: GLP83009 TE: 23-JAN-84
139 SEX: FEMALE DEATH: 754	DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 263.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERLARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT) MULTI-FOCAL(MODERATE)
KIDNEY	NOT SPECIFIED(TRACE)
UTERUSDILATATION OF THE UTERINE LUMEN (HYDROMETRA) -CYSTIC DILATATION OF THE ENDOMETRIAL GLANDS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(MILD)
MOSE/TURBINATES	CELLULAR INFILTRATE IS ADJACENT TO THE NASO-LACRIMAL DUCT. Not specified(mild)
ADREMAL	NOT SPECIFIED (PRESENT) (PRESENT)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)
DIAPHRAGM MISCELLANEOUS TISSUE	MISCELLANEOUS TISSUE

	PRINTED: 21-NOV-89 PAGE: 673	STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 263.00 (GMS)		
DATA	930	AL SACRIF	COMMENTS	
ANIMAL	2011	STATUS: FIN	S >>	_
INDIVIDUAL	DATA REPORT GLP83009	SACRIFICE S	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	MISCELLANEOUS TISSUE NOT SPECIFIED (PRESENT)
PATHOLOGY INDIVIDUAL ANIMAL DATA	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23.:AN.RL	339 SEX: FEMALE DOSE GROUP: 2 F DEATH: 754 STUDY WEEK OF DEAT	SUE OBSE	NOT SPELL
J (cont.):	I STUDY START	339 SEX: FEMALE OF DEATH: 754	0 P I C T I S S U E	
		339 Y OF DE	0 0	T 10M
xipueddy	TELIEVANA ARMI INSTITUTE OF RESERVED DIV OF RES SUPP, PAIN SERV GP SPECIES: RAI/FISCHER-344	ANIMAL NUMBER: 339/PRETEST 339 SEX: FEMALE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DOSE GROUP: 2 SACRIFICE STATUS: FINAL SACRIFICE DOS GMS)	TISSUE / MISTOPATHOLOGIC FINDINGS	DIAPHRAGM MISCELLANEOUS TISSUE -COMPOUND RELATED INFLAMMATORY REACTION NOT SPECIFIED (PRESE

(cont.): PAT INDIVIE STUDY START DATE:	PATHOLOGY INDIVIDUAL ANIMAL DATA PRINTED: 21-NOV-89 bividual animal data report study number: Glp83009 bate: 23-Jan-84
Tm 355 SEX: FEMALE DY DAY OF DEATH: 620	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 89 TERMINAL BODY WEIGHT: 263.00 (GMS)
R G A N O B S E	
SALIVARY GLAND GROWTH(S) / MASS(ES) PRESENT	3.5 X 3.5 X 2CM, NODULAR, RED/BLACK/TAM, INCORPORATES Submandibular salivary glands.
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE) (PRESENT)
SALIVARY GLAND	(PRESENT)
HEARTCARDIOMYOPATHY	NOT SPECIFIED(MILD)
THYRUS	TISSUE IS MISSING RECUTS OF BLOCK #7 WHICH SHOULD CONTAIN THYMUS FAILED TO DEMONSTRATE THIS ORGAN. ATTEMPTS TO DEMONSTRATE THYMUS BY EMBEDDING AND CUTTING ADDITIONAL WET TISSUES WERE LIKEWISE UNSUCCESSFUL.
LYMPH WODESREMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES	NOT SPECIFIED (PRESENT)
LIVERBILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -BEPATITIS	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
NOSE/TURBINATES	MINIMAL INFILTRATE IS BILATERAL ADJACENT NASO-LACRIMAL DUCTS.

IMAL DATA PRINTED: 21-NOV-89 PAGE: 690 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	SACRIFICE STATUS: SACRIFICED MORIBUND: 89 TERMINAL BODY WEIGHT: 283.00 (GMS)	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
21-N 690 ARCIN	GMS)		
NTED: 21-1 PAGE: 690 : YR CARCII	8	:	
PR11	118UNI 283		
A CHRON	D HOR	ETS.	
DAT YPE:	IFICE VEIGH	COMME	
A.E.	SACR	IAL .	
NIN	TUS:	SPEC	
F H	E STA	N S I	
DUA ORT	RIFIC	I O EVERI	RACE)
OIVI A REP B3009	SAC H: 89	N (S)	IED (TI
INI I DAT	DEAT	E R	ECIF
SDC.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY IYPE: CH	355 SEX: F:MALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND DEATH: 62:) STUDY WEEK OF DEATH: 89 TERMINAL BODY WEIGHT: 283.00 (GMS)	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	NOT SPECIFIED(TRACE)
HOL.	GROU		
PAT DIVID STU DATE:	POSE	⊃	SES,
: IN TART		S S -	MASAL CAVITY, SINUSES,
(cont.):	355 SEX: FEMALE DEATH: 621	-	/ITY,
con	355 SEX: FIN DEATH: 62')	Ü	. CA
ט ט			NASA
i x	TEST STUDY DAY OF	COLC FINDINGS	T 10M,
Appendix of RESEARCH RV GP	EST. TUDY	CRO	ILTRA UCTS
APP of R RV GP	355/PRETEST= -85 STUDY	- SI	TAL D
11UTE 18 SE 1-344	355 :1-85	0190	ACRIP
PAT SCHEE	03-00	ATHOL	ATORY ASO-L
Appendix J LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	ANIMAL NUMBER: 355/PRETEST= DATE OF DEATH: 03-OCT-85 STUDY DAY OF	1ST0F	OSE/TURBINATES
RAAR FRES	P. DE	E / H	TURBI ED IN BINAT
Appendix Letterman army institute of Research DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344	ANIMAL NUMBER: 355/ DATE OF DEATH: 03-OCT-85	TISSUE / MISTOPATHOLOGIC FINDINGS	NOSE/TURBINATES

LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ITUTE OF RESEARCH TH SERV GP R-344	STUDY		VIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Te: 23-Jan-84	PRINTED: 21-NOV-89 PAGE: 691 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 356/PRETEST= DATE OF DEATH: 07-FEB-86 STUDY DAY OF	356/PRETEST# EB-86 STUDY DAY OF	356 SEX: F DEATH: 74	:	DOSE GROUP: 3 SACRIFIC STUDY WEEK OF DEATH: 107	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 258.00 (GMS)
ORGAN NAME	C C B O S S O R KEYLORDS / PHRASES	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	O B S E R V A SEVERITY	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS	ENTS
LIVER	NODULE(S)	: :	PRESENT	2MM DIAMETER, WHITE	i
TISSUE / HISTOPATHOLOGIC FINDINGS	: 0	S C O P 1 C T	I S S C E	OBSERVATIONS DISTRIBUTION (SEVERITY)	N S >> TY) / SPECIAL COMMENTS
HEART				NOT SPECIFIED(TRACE)	
LYMPH NODES	PERPLASIA			A SMALL MESENTERIC L' #12 HAS A REACTIVE CI ABUNDANT GREEN AND BK NOT SPECIFIED (PRESEN	A SMALL MESENTERIC LYMPH WODE ADJACENT TO THE PANCREAS IN SLIDE #12 HAS A REACTIVE CHANGE. MACROPHAGES IN THIS NODE CONTAIN ABUNDANT GREEN AND BROWN CRYSATLLINE PIGMENT.
- NEPATOCYTIC VACUOLIZATION - FOCUS OF CELLULAR ALTERATION - CLEAR C - BENIGN MYPERPLASTIC NODULE(S) - NEPATOCYTE COALESCING MICROVESICULAR (NECROSIS AND MINERALIZATION	ALTERATION CLEAR C NODULE(S) ING MICROVESICULAR	CLEAR CELLS CULAR (FATTY) CHANGE LEADING TO	LEADING TO	MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) FOCAL(TRACE) MULTI-FOCAL(MILD)	
KIDNEYPROGRESSIVE RENAL DISEASE	DISEASE			NOT SPECIFIED (MILD)	
UTERUS	OF THE ENDOMETRIAL	LANDS		NOT SPECIFIED (PRESENT)	(I
-EPIDERMAL INCLUSION CYST(S)	ERMAL INCLUSION CYST(S)			THERE IS AN EPIDERMAL I ADJACENT TO THE THYROID NOT SPECIFIED (PRESENT)	THERE IS AN EPIDERMAL INCLUSION CYST IN THE CONNECTIVE TISSUE ADJACENT TO THE THYROID GLAND. NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	AMMARY GLANDS	E ACINAR TISSUE CTULES		NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)	E)

Appendix J (cont.): PATHO LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 ANIMAL NUMBER: 356/PRETEST# 356 SEX: FENALE DOSE GR DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 TISSUE / HISTOPATHOLOGIC FINDINGS ADREMAL

TE OF RESEARCH SERV GP 44	DATA REPORT GLP83009
357/PRETEST# 357 SEX: FEMALE 8-86 STUDY DAY OF DEATH: 747	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 220.00 (GMS)
KEYWORDS / PHRASES SEVERI	V A T I O M S >> TY GROSS FREE-TEXT COMMENTS THE RIGHT AXILLARY, 2.5X1.5 CM, YELLOW
C N C R O S C O P I C T I S S U E TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PARATHYROID	. TISSUE IS MISSING
EXORBITAL LACRIM	. MULTI-FOCAL (TRACE)
HEART	NOT SPECIFIED(TRACE)
SPLEEN	MOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
-RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	. RBC'S, HEMOSIDERIN AND REACTIVE HYPERPLASTIC CHANGES ARE Present in both mediastinal and cervical modes. Not specified (present)
MEDULLART SINUSES -REACTIVE HYPERPLASIA	NOT SPECIFIED (PRESENT)
LIVER	. MULTI-FOCAL(MILD)
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
MAMMARY GLANDS	. THE SUBCUTANEOUS MASS NOTED GROSSLY IN THE AXULLARY AREA IS A MAMMARY FIBROADENOMA. NOT SPECIFIED(MILD)
ND/OR HYPERTROPHY OF THE ACINAR TISSUE	

Appendix J (cont.): P of RESEARCH v GP STUDY START DA	INDIVIDUAL DATA REPORT GLP83009
/PRETEST= 357 SEX: FEMALE STUDY DAY OF DEATH: 747	SACRIF DEATH: 107
	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	(PRESENT) Not specified (Present)
NOSE/TURBINATES	INFILTRATE: BILATERAL ADJACENT NASO-LACRIMAL DUCTS. Not specified(moderate)
BONE, STERNUM	TISSUE IS MISSING
ADRENAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC W	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
THORAX	MISCELLANEOUS TISSUE THE SUBCUTANEOUS MASS MOTED GROSSLY IN THE AXILLARY AREA IS A MAMMARY FIBROADENOMA THAT WAS CODED UNDER MAMMARY GLAND.
WHOLE BODY	THERE IS INFLAMMATION OF BROWN FAT IN MANY LOCATIONS THROUGHOUT THE BODY SUCH AS CERVICAL SUBCUTANEOUS AREA, THE MEDIASTINUM AND THE PERI-RENAL AREA. NOT SPECIFIED (PRESENT)
MEDIASTINUM	MISCELLANEOUS TISSUE Inflammation involves brown fat. Multi-focal(mild)

Appendix J (cont.): PATHOLOGY LETTERHAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 358/PRETEST 358 SEX: FEMALE DOSE GROUP: 3 DATE OF DEATH: 17-OCT-85 STUDY DAY OF DEATH: 634 STUDY WEEK OF	SACRIFICE STATU DEATH: 91 TERMINA
S G A N	O B S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS
SKIN SUBCUTANEOUS MASS PRESENT	SEMIFIRM, WHITE AND RED, 4 X 3.5 X 2CM, ADJACENT TO RIGHT HUMERUS
C M I C R O S C O P I C T I S S U E TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LUNGSPNEUMONIA, INTERSTITIAL, CHRONIC	FOCAL (MILD)
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	NOT SPECIFIED(MILD) MULTI-FOCAL(TRACE)
MAMMARY GLANDS	THE MASS ADJACENT TO THE RIGHT HUMEROUS IS A MAMMARY FIBROADEWOMA. HOT SPECIFIED(TRACE) (PRESENT) NOT SPECIFIED (PRESENT)
EYES & OPTIC M.	TISSUE IS MISSING Many artifacts of tissue preparation make evaluation of eyes Impossible. No lesions are recognized in tissues available.

Appendix J (cont.): TE OF RESEARCH SERV GP STUDY STAR	INDIVID DATA REPOR GLP83009
359 SEX: FEMALE DEATH: 726	TATUS: SACRIFICED MINAL BODY WEIGHT:
C G R O S S O R G A M O 88 KEYWORDS / PHRASES	
LUNGS DISCOLORATION PRESENT KIDNEY GRANULAR SURFACE PRESENT LIVER ENLARGED (SPLENOMEGALY) PRESENT SPLEEM ENLARGED (SPLENOMEGALY) PRESENT	FOCAL, DIFFUSE, VARIABLY SIZED, RED GREEN/BROWN PITTED SURFACE 8 X 3 X 1CM, IRREGULAR SHAPED MARGIN .6CM DIAMETER, DARK RED
C NISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TNYROID GLANDS	FOCAL (TRACE)
MEART	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
LUNGSINTERSTITIAL, CHRONIC PNEUMONIA, INTERSTITIAL, CHRONIC N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	. MULTI-FOCAL(MILD) (PRESENT)
SPLEEN	(PRESENT) NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
LYMPH MODES	. (PRESENT)
LIVER BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS	NOT SPECIFIED(MODERATE)

Appendix J (cont.): PATHOLOGY LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP63009 T DATE: 23-JAN-64
ANIMAL NUMBER: 359/PRETEST# 359 SEX: FEMALE DOSE G	SACRIFICE STATU DEATH: 104 TERMINA
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER DEGENERATIVE CHANGES (NON-NECROTIC) - NE LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(MODERATE) (Present)
KIDMEY	NOT SPECIFIED(MODERATE)
UTERUS	
NANMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED(MILD)
PITUITARY GLANDB- ADENOMA	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
INDI STUDY START DA	DATA REPORT GLP83009
360 SEX: FEMALE DEATH: 747	SACRIFICE STAT
C G R O S S O R G A N O B KEYUORDS / PHRASES	
UTERUS POLYP POLY PRESENT LIVER PRONINENT LOBULAR MARKINGS TRACE SPIEEN ENLARGED (SPLENOMEGALY) PRESENT	NT ENDOMETRIAL, DISTAL LEFT HORN,1 X.3CM, YELLOW. E S.5X1.5X1CM.
TISSUE / HISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEART	MOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGS	(PRESENT)
SPLEEN	(PRESENT)
LIVER	(PRESENT)
KIDNEY	NOT SPECIFIED(TRACE)
UTERUSENDOMETRIAL STROMAL POLYP	NOT SPECIFIED (PRESENT)
HAMMARY GLAMOS	NOT SPECIFIED(MILD)
ADREMAL	NOT SPECIFIED(TRACE)

Appendix	J (cont.):	PATHOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 360/PRETEST= DATE OF DEATH: 07-FEB-86 STUDY DAY OF	. **	DOSE GROUP: 3 STUDY WEEK OF D	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 249.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS		0 B S D1STR1	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS
CORNEAL MINERALIZATION -CORNEAL MINERALIZATION -RETINAL ATROPHY AND/OR DEGENERATION, UNILATERAL OR BILATERAL -CORNEAL VASCULARIZATION -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	UNILATERAL OR BILA	NOT SPENTERAL NOT SPENTERAL NOT SPE	
WWOLE BODY	٧I	(PRESENT)	

LETTERMAN DIV OF RE	Appandix LETTERNAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	TITUTE	Appendix of research rv GP	dix :ARCH	ם	Ŏ	(cont.):	:	PATINO IVI	PATHOLOGY INDIVIDUAL ANIMAL STUDY NUMBER:	OGY ANIMAL JHBER:	INDIVIDUAL DATA REPORT GLP83009		ANIMAL DATA	(AL	DATA	ď	INTED:	NTED: 21-1 PAGE: 700	PRINTED: 21-NOV-89 PAGE: 700
SPECIES:	SPECIES: RAT/FISCNER-344 ANIMAL HUNGER: 361/PRETEST# 351/PRETEST# 351	361/ SED: 85	PRETEST	ETEST# SAY OF	n i	61 SI	STUDY 161 SEX: FEM 164 SEX: FEM		2 :	ATE: 23-JAN-84 DOSE GROUP: 3	JAN-84		SACRIFICE STATUS: SACRIFICED MORIBUND AAA TERMINAL BODY URIGHT.	STATUS:	SACR	ESTUDY TYPE: CHRONIC/2 YR CARCINGENIC ESTATUS: SACRIFICED MORIBUMO (FMC)	RONIC/	C/2 YR CARCI	CARCII	KOGENI
ORGAN NAME	ORGAN MAME KEYLORDS / PHRASI	v	G R O S S O KEYWORDS / PHRASE			X	2	0	B S E R V A SEVERITY	! : ~	T I O N GROSS FR	T T O N S ->> CRANENTS	COMMENT	S						
LUMGS	:	• •	DISCOLORATION	2AT 101		•			PRESENT		RAISEC IN PAR	RAISED, GRAY/OPAGUE, MULTIFOCAL, .12CM DIAMETER, DISSEMINATED IN PARENCHYMA.	NOUE, MU	 JLT1F0C	. 'YF'	12см	DIAMET	ER, DI	ISSEM	INATED
TISSUE /	C NISTOPATHOLOGIC FINDINGS	10F001C	M I C R O FINDINGS	s o s	•	-	S	-	S S U E		D B S	OBSERVATIONS DISTRIBUTION (SEVERITY)	A T 1 0 N S (SEVERITY) /	, spe	CIAL	ONS >> RITY) / SPECIAL COMMENTS	· .			
TRACHEA -N- PRES	RACMEA	ETASTAT	TIC NEOP	LASH		•			•		THE TRADENOC	THE TRACHEAL WALL IS INVADED BY THE THYROID PARAFOLLICULAR CELL Adengarcinoma. Secondary Neoplasm from organ thyroid glands	L IS IN	IVADED ORGAN	BY THI THYR	E THYRO	10 PAR.	AFOLLI	ICULAS	1 CELL
THYROID GLANDS -M- PARA-FOLL	MYROID GLANDS	AR CELL	ADENOC	ARCIN	OMA	:	:			:	(PRESENT)	2								
PARATHYROID	010					:	:	•		:	LISSUE THE EN IEOPLA	TISSUE IS MISSING THE ENTIRE THYROID AREA IS OCCUPIED BY A MALIGNANT THYROID NEOPLASM, PARATHYROID GLANDS WERE NOT FOUND.	IG ID AREA HYROID	IS OC	CUP I EL	NOT FO	MAL I GN. UND.	ANT TH	17R016	
LUNGS -MINERAL -N- PRES	UNGS	F PULMO	MARY AR	TERIE	s	•	:	:		:	OT SP	NOT SPECIFIED(TRACE) SECONDARY NEOPLASM FROM ORGAN THYROID GLANDS	ACE) SM FROM	ORGAN	THYRC)10 GLA	SON			
LYMPH NODES -HISTIOCYTI	YMPH WODES	LTRATIO	N, SUBC	APSUL	• •	NO ME	DULL	ARY SI	IND MEDULLARY SINUSES	:	IOT SP	NOT SPECIFIED (PRESENT)	RESENT)							
KIDNEY .		•	•		•		:		•	:	THERE	THERE IS INFLAMMATION OF PERIRENAL BROWN FAT. UNDER "WHOLE BODY"	ATION O	F PERI	RENAL	BROWN		LESION IS	SI -	CODED
HAMMARY GLANDS					:					:	r I SSUE	TISSUE IS MISSING	9							
PITUITARY GLAND -CYST(S)								•			10T SP	NOT SPECIFIED (PRESENT)	RESENT)							

Yppendix C		(cont.):	:: •	PATE	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAI	DATA .		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUP?, PATN SERV GP SPECIES: RAT/FISCHER-344		STUD	I Y START	NDIVIDU STUD DATE:	INDIVIDUAL ANIMAL DATA REPO Study Number: Glp83009 Study Start Date: 23-jan-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp63009 T Date: 23-Jan-64	STUDY	TYPE: CHI	PRINTED: 21-NOV-89 PAGE: 701 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	0V-89 0GENIC
ANIMAL HUMBER: 361/PRETEST= 3 DATE OF DEATH: 09-SEP-65 STUDY DAY OF	361 OF DEA	161 SEX: FEMALE DEATH: 596	EMALE 6	DOSE STUDY	DOSE GROUP: 3 STUDY WEEK OF DEAT	SACRIFICE SEATH: 86 T	SACRIFICE STATUS: SACRIFICED MORIBUND: 86 TERMINAL BODY WEIGHT: 170.	CRIFICED I	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 86 TERMINAL BODY WEIGHT: 170.00 (GMS)	
COPIC TISSUE / NISTOPATHOLOGIC FINDINGS 1188UE / NISTOPATHOLOGIC FINDINGS 1188UE / NISTOPATHOLOGIC FINDINGS	0	ú	PIC TISSUE	S	0 B S 0 ISTRIE	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> Y) / SPECIA	L COMMENTS		•
WHOLE BODY	SPEC1	FIED	N COMME		. THERE I AND ADJ	THERE IS INFLAMMATION OF AND ADJACENT TO KIDNEYS NOT SPECIFIED (PRESENT)	OF BROWN F YS T)	AT ADJACEI		SONA

		Appendix	dix	ם	(cont.)	: (::	<u>α</u>	ATEC	PATHOLOGY		INDIVIDUAL	ANIMAL		DATA		
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ATH SER	OF RESE.	ARCH		STU	STUDY START	3	VIDUAL STUDY TE: 2	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	L DATA REPORT: GLP83009	E P OR T 09	STUDY	TYPE:	PRINTED: 21-NOV-89 PAGE: 702 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-1 PAGE: 702 C/2 YR CARCII	21-NOV-89 702 RCINOGENIC
ANIMAL NUMBER: 362/ DATE OF DEATH: 26-NOV-85	ER: 362/PRETEST= IN: 26-NOV-85 STUDY DAY 0	362/PRETEST= V-85 STUDY	ETEST= 362 SEX: FE STUDY DAY OF DEATH: 674	362 F DE	SEX:	362 SEX: FEMALE DEATH: 674	, !	OSE GI	toup: 3 IEEK OF	S DEATH:	ACRIFICE 97 TE	STATUS: SA	CRIFIC Y WEIG	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 97 TERMINAL BODY WEIGHT: 235.00 (GM	BUND 235.00 (GMS)	_
ORGAN NAME	¥	G R O S S O R Keywords / Phrases	S / PHR	. o # :	Z (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5	0	B S E	S E R V A SEVERITY		N S >>	T I O N S >> GROSS FREE-TEXT COMMENTS			: : : : :		
SPLEEN LIVER KIDMEY OITUITARY GLAND PITUITARY GLAND		ENLARGED (SPLENOMEGALY) ENLARGED (SPLENOMEGALY) DISCOLORATION ENLARGED	(SPLE, (SPLE, T LOBU ATION	NOMEGJ LAR M	NLY) NRKING	.′ •	. 4 2 4 4 4 . 4 0 4 4 4 . 4 0 4 4 4	PRESENT PRESENT PRESENT PRESENT	6 X 1 DARK FOCAL	6 X 1.5 X 1CM DARK BROWN WIT	6 X 1.5 X 1CM DARK BROWN WITH MULTIPLE PINPOII FOCAL, RED/BROWN, .4CM DIAMETER	E PINPOIN	T LIGH	6 X 1.5 X 1CM DARK BROWN WITH MULTIPLE PINPOINT LIGHT BROWN FOCI. FOCAL, RED/BROWN, .4CM DIAMETER	:	
TISSUE / MISTOPATHOLOGIC FINDINGS	THOLOGIC F	M I C R O FINDINGS		0 6 1	Ü	-	n s s	ш	O B S D I S T R	OBSERVA DISTRIBUTION	OBSERVATIONS DISTRIBUTION (SEVERITY)	>> >> COMMENTS	L COMMENT	ENTS		
THYROID GLANDS	AR CELL	ADENOM							(PRESENT)	HT.)						
SALIVARY GLAND			:	•					THERE TO TH	THERE IS MAMMARY HYPE TO THE SALIVARY GLAND	ARY HYPERS RY GLAND	NI VISVI	THE AD	THERE IS MAMMARY HYPERPLASIA IN THE ADIPOSE TISSUE ADJACENT TO THE SALIVARY GLAND	E ADJACE	12
HEART			•		•	•			NOT SI	PEC1 F1ED(NOT SPECIFIED (MODERATE)					
LUNGS	LYMPHC	CYTE LE	UKENI	: .	METASTATIC	21			(PRESENT)	£						
THYMUS	LYMPHO	CYTE LE	UKENI	: .	METASTATIC	:			(PRESENT)	5						
SPLEEN	LYMPHO	CYTE LE	UKENIA	• • •	METASTATIC	:			(PRESENT)	£						
LIVER	HELIAL IERATIVE YTIC, I	HYPERPL CHANGE ND IVIDU	ASIA / S (NON IAL CEL		ID/OR CHOLAN NECROTIC) S METASTATIC	DO CHOLANGIOFIBROSIS NECROTIC) S METASTATIC	BROS			MULTIFOCAL NECROSIS SECONDARY TO LGLL NOT SPECIFIED(MILD) DIFFUSE(MODERATE) DIFFUSE(MILD)	CROSIS AND GLICATED (MILD)	HEPATOCY	TIC DE	AND REPATOCYTIC DEGENERATIVE CHANGES	CHANGES	A RE
KIDNEY				:												

J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
NUMBER: 362 PRETEST= 362 SEX: FEMALE F DEATH: 26-NOV-85 STUDY DAY OF DEATH: 674	CE STA
E CROSCOPIC TISS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (TRACE)
ILEUM	(PRESENT)
PANCREAS	NOT SPECIFIED (MILD)
MANMARY GLANDS	NOT SPECIFIED (WILD) NO) SPECIFIED (PRESENT)
MOSE/TURBINATES	CELLULITIS INVOLVES NASO-LACRIMAL DUCT REGION NOT SPECIFIED(MILD)
ADREMAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
WHOLE BODYTYMPHOCYTIC LEUKEMIA	(PRESENT)

ITUTE OF RESEARCH TH SERV GP R-344	DATA REPORT GLP83009 STUDY TYPE: CH
363 SEX: FEMALE F DEATH: 747	
C R O S S O R G A M O B KEYWORDS / PHRASES	
OVARIES PARA-OVARIAN CYST(S) PRESENT	LEFT, 1.5CM DIAMETER.
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	FOCAL(TRACE)
HEARTCARDIOHYOPATHY	NOT SPECIFIED(TRACE)
LUNGS	NOT SPECIFIED(TRACE)
LYMPH NODES	REACTIVE HYPERPLASIA IS LIMITED TO ONE MEDIASTINAL LYMPH NODE. Not specified (present)
LIVER -HEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -FOCUS OF CELLULAR AND MICROVESICULAR (FATTY) CHANGE LEADING TO -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	MULTI-FOCAL(TRACE) FOCAL(TRACE) MULTI-FOCAL(MILD)
KIDNEYPISEASE PROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
OVARIES	A PAROVARIAN CYST WAS REPORTED ON GROSS EXAMINATION. THERE WERE NO MICROSCOPIC CHANGES CORRESPONDING TO THIS LESION IN SECTIONS SUBMITTED FOR HISTOLOGIC EXAMINATION.
MANMARY GLAMDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
ADREMAL	

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	AL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DATA REPORT DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY NUMBER: GLP83009 STUDY TY	PRINTED: 21-NOV-89 PAGE: 705 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 363/PRETEST# 363 SEX: FEMALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE Date of Death: 07-feb-86 Study Day of Death: 107 Terminal Body Weight: 279.00 (GMS)	SACRIFICE STATUS: FINAL SACRIFICE 107 TERMINAL BODY WEIGHT: 279.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS 1 S S U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	ITY) / SPECIAL COMMENTS
ADREMAL	
EYES & OPTIC M	CAPSULAR, UNILATERAL AND VERY SLIGHT. Ent)

Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP	Appendix J	J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL STUDY MUNBER:	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009
SPECIES: RAT/FISCHER-344	1-344 364/PRETEST# 88-86 STUDY DAY OF	364 SE	Q :	SACRIFICE STATUS: CHRONI
ORGAN MAME		ES G A M		T COMMENTS
FITUITARY GLAND LIVER Mammary Gland	ENLARGED ADHESION(S) PROMINENT	:	PRESENT .2 PRESENT DI	.25CM DIAMETER. DIAPHRAGM.
TISSUE / MISTOPATHOLOGIC FINDINGS	M I C R O S C O	0 1 1 0	SSUE DIS	0 B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LACRIMAL GLAND	TO CHRONIC ACINAR TISSUE		NOT	SPECIFIED(TRACE)
HEARTCARDIOMYOFATHY			TON	MOT SPECIFIED(TRACE)
LUNGS OF PULMONARY ARTERIES	IONARY ARTERIES			MOT SPECIFIED(TRACE)
THYMUS			S11	TISSUE IS MISSIMG NO THYMIC TISSUE WAS PRESENT IN ORIGINAL SECTIONS OR RECUTS OF BLOCK #7.
LYMPH MODES	IYPERPLASIA		TAE TAE TAE	MESENTERIC LYMPH NODES ARE HYPERPLASTIC PROBABLY AS A RESULT OF THE STEATITIS IN MESENTERIC FAT. THIS LESION IS CODED UNDER "WHOLE BODY".

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
364/PRETEST= 364 SEX: FEMALE DOSE 8-86 STUDY DAY OF DEATH: 747 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 210.00 (GMS)
P (C T 1 S	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	SECTION #21 WAS INCLUDED WITHOUT EXPLANATION FROM GROSS NECROPSY OR TISSUE TRIMMING LAB. THIS IS A SMALL FRAGMENT OF LIVER WHICH HAS ABUNDANT TEST MATERIAL AND TYPICAL ATTENDANT REACTION ON THE CAPSULAR SUBFACE. DETAILED MICROSCOPIC EXAMINATION OF ALL TISSUES AND AN EXHAUSTIVE SEARCH OF WET TISSUES WITH
	ADDITIONAL MICROSCUPIC EXAMINATION (SECTION #22) FAILED TO DEMONSTRATE TEST MATERIAL OR REACTION TO 11. SMALL VERY FINE ADDRESIONS BETWEEN LIVER AND DIAPPRAGM ARE PRESENT IN SECTION #22 CORRESPONDING TO GROSS FINDINGS. CONCLUSION: TISSUE IN BLOCK #21 DOES NOT BELONG TO THIS ANIMAL AND WERE PLACED WITH THIS RAT'S TISSUES IN ERROR. ALL OTHER INDICATIONS ARE THAT THIS IS A
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -Mepatitis -Mepatocyte coalescing Microvesicular (fatty) Change Leading to Mecrosis and Mineralization	COMTROL AWIMAL THAT WAS NOT EXPOSED TO THE TEST MATERIAL. HULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
UTERUSSTROMAL POLYP	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
TORGUE	FOCAL (TRACE)
MAMMARY GLANDS	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)
ADREMAL	

LETTERMAN ARMY INSTITUTE OF RESEARCH INDIVIDUAL ANIMAL DATA REPORT DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84 SPECIES: RAT/FISCHER-344
PRETEST 364 SEX: FEMALE STUDY DAY OF DEATH: 747
TISSUE / MISTOPATHOLOGIC FINDINGS TISSUE / MISTOPATHOLOGIC FINDINGS DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ADREMAL
PITUITARY GLAND
UNOLE BODY

Appendix J (cont.): PATHOLOGY	COGY INDIVIDUAL ANIMAL DATA
TUTE OF RESEARCH H SERV GP -344 STUDY STAR	DATA REPORT GLP83009 STI
EX: FENALE H: 557	SACRIFICE STATUS: SACRIFICED W DEATH: 80 TERMINAL BODY WEIGHT:
C G R O S S O R G A N O S KEYWORDS / PHRASES	S E R V A T I O N S -> SEVERITY GROSS FREE-TEXT COMMENTS
EVES & OPTIC N. CORNEAL OPACITY PRESENT	RIGNT
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LUNGS	NOT SPECIFIED(TRACE)
LIVER	MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDNEY	ACUTE HEMORRHAGE IS PROBABLY A TERMINAL LESION Not specified (present)
MOSE/TURBINATES	THE INFLAMMATION IS PYOGRAMULOMATOUS AND IS LOCATED ON AND NEAR THE MASO-LACRIMAL DUCT BILATERALLY. FOREIGN BODY (PLANT MATERIAL) IS PRESENT. NOT SPECIFIED(MARKED)
BONE, STERNUM	SECTION OF STERNUM IS MISSING
ADREMAL	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	TISSUE IS MISSING
EYES & OPTIC N	CATARRACT IS UNILATERAL AND SUBCAPSULAR. IT INVOLVES THE EYE AFFECTED BY THE RETINAL DEGENERATION. NOT SPECIFIED (NODERATE) NOT SPECIFIED (PRESENT)

LETTERMAN ARM	Appendix	J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL		DATA PRI
SPECIES: RAT/FISCHER-344	STATE STATE OF STATES OF S	•	STUDY START DATE: 23-JAN-84	er.roson9	STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 366/ DATE OF DEATH: 07-FEB-86	Ī	ETEST 366 SEX: FEMALE STUDY DAY OF DEATH: 747	DOSE GROUP: 3 STUDY WEEK OF	SACRIFICE EATH: 107 T	SACRIFICE STATUS: FINAL SACRIFICE 107 TERMINAL BODY WEIGHT: 284.00 (GMS)
ORGAN NAME	ORGAN MAME KEYNORDS / PHRASES	0	· <	T 1 O N S ->> GROSS FREE-TEXT COMMENTS	1
LIVER	NODULE(S)	•	PRESENT	LEFT LATERAL, 3 X .4CM.	
TISSUE / NISTOPATHOLOGIC	C N I C R O S C A I C R O S C	0 9 1 0 1 1	SSUE	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	SPECIAL COMMENTS
THYROID GLANDS -M- PARA-FOLL	HYROID GLANDS	IONA		(PRESENT)	
LACRIMAL GLAND -INFLAMMATION,	, SUBACUTE TO CHRONIC		OM	MULTI-FOCAL(TRACE)	
EXORBITAL LACRIM -ACINAR ATROPHY			ON	NOT SPECIFIED(TRACE)	
HEART	EART	RIES	NOT	T SPECIFIED(MILD) T SPECIFIED(TRACE)	
LYMPH MODES .	EELS, NEMOSIDERIM AND/OF	HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN	:	A SMALL LYMPH NODE ADJACENT TO THE THYROID CONTAIN OF THE PARAFOLLICULAR CELL ADENOCARCINOMA. A MEDINER THE THYMUS CONTAINS ERYTHROPHAGOCYTOSIS AND THE HISTIOCYTIC INFILTRATION INVOLVES MESENTERIC NOT SPECIFIED (PRESENT)	A SMALL LYMPH NODE ADJACENT TO THE THYROID CONTAINS METASTASIS OF THE PARAFOLLICULAR CELL ADENOCARCINOMA. A MEDIASTINAL WODE NEAR THE THYMUS CONTAINS ERYTHROPHAGOCYTOSIS AND MEMOSIDERIM. THE HISTIOCYTIC INFILTRATION INVOLVES MESENTERIC NODES. NOT SPECIFIED (PRESENT)
MEDULLARY SINUSES -NISTIOCYTIC INFILI	MEDULLARY SINUSES -HISTIOCYTIC INFILTRATION, SUBCAPSULAR -N- PRESENCE OF METASTATIC MEDPLASM	AR AND MEDULLARY SINUSES.		NOT SPECIFIED (PRESENT) SECONDARY NEOPLASM FROM ORGAN THYROID GLANDS	N THYROID GLANDS
LIVER HEPATITIS - PERIPORTAL H - BENIGN HYPER	-HEPATITIS -PERIPORTAL MONONUCLEAR CELLULAR INFIL1 -BENIGN HYPERPLASTIC NODULE(S)	ILTRATION		THE LIVER WODULE MOTED GROSSLY WAS EXAMINED MISTOL ESSENTIALLY, IT CONSISTS OF LIVER TISSUE WITH THE CODED. THERE ARE NO MYPERPLASTIC CELLULAR CHANGES MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) NOT SPECIFIED(MILD)	THE LIVER MODULE NOTED GROSSLY WAS EXAMINED HISTOLOGICALLY. ESSENTIALLY, IT CONSISTS OF LIVER TISSUE WITH THE CHANGES CODED. THERE ARE NO HYPERPLASTIC CELLULAR CHANGES IN THE NODULE. MULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE) NOT SPECIFIED(MILD)

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
ANIMAL NUMBER: 366/PRETEST= 366 SEX: FEMALE DOSE GROLD DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 STUDY WEE	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 284.00 (GMS)
- C - 1 - S S C E	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	MULTI-FOCAL(MILD)
KIDMEY PROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
MAMMARY GLANDS	MAMMARY HYPERPLASIA IS MINIMAL IN SECTION #15. HOWEVER THERE IS SIGNIFICANT MAMMARY TISSUE IN THE SUBCUTIS OF THE CERVICAL REGION ADJACENT TO SALIVARY GLANDS IN SECTION #4.
MOSE/TURBINATES	INFILTRATE IS BILATERAL ADJACENT NASO-LACRIMAL DUCTS. Not specified(mild)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	THE ADENOMA IS PERIPHERALLY LOCATED AND QUITE SMALL. (PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)

LELIERMAN ARMI INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RATVEISCHER-344 STAN-84	ANIMAL DAIA KEPOKI JMBER: GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC
EST# 367 SEX: FEMALE TUDY DAY OF DEATH: 747	SACRIFICE STATU DEATH: 107 TERMINA
ORGAN WAME C G R O S S O R G A W O B S E R V A T EVENTY G SECENITY	T 1 0 N S >> GROSS FREE-TEXT COMMENTS
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TMYROID GLAWDS	NOT SPECIFIED(TRACE)
EXORBITAL LACRIM	FOCAL (TRACE)
	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LUNGSPHEUNONIA, GRANULOMATOUS	MULTI-FOCAL(MILD)
LYMPH HODES	RBC'S AND HEMOSIDERIN PRESENT IN MESENTERIC NODES ONLY. Not specified (present)
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -FOCUS OF CELLULAR ALTERATION - CLEAR CELLS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)

) r xipenddw	(cont.):		200	PATHOLOGY INDIVIDUAL ANIMAL DATA	ANIMAL	DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	STUDY ST	= -	ANIMAL NUMBER: -JAN-84	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84	STUDY T	PRINTED: 21-NOV-89 PAGE: 713 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 367/PRETEST= 367 SEX: FEM DATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747	: ₹	:	OUP: 3 EEK OF D	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT:	TATUS: FINA	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 241.00 (GMS)
	3		OBSE DISTRIB	SSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	/ SPECIAL	COMMENTS
PANCREAS			FOCAL (TRACE)	RACE)		
MAMMARY GLANDS	ACINAR TISSUE ULES	ACIMAR TISSUE ULES	NOT SPE NOT SPE	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)		
ADRENALFERALIERATION, VACUOLATED		•	NOT SPE	NOT SPECIFIED (MILD)		

Appendix J (cont.): PATHC	PATHOLOGY INDIVIDUAL ANIMAL DATA
IN STUDY START	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGGE
368 SEX: FEMALE F DEATH: 750	JP: 3 EK OF
C G R O S O R G A R O G S E R V KEYWORDS / PHRASES SEVERITY	T I O
KIDNEY GRANULAR SURFACE PRESENT PITUITARY GLAND ENLARGED	.SCM DIAMETER, RED
TISSUE / MISTOPATMOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	. MULTI-FOCAL(TRACE)
HEART	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE)
LYMPH WODESREMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SIMUSES	. RBC'S AND HEMOSIDERIN LIMITED TO MEDIASTINAL NODES. Not specified (present)
LIVER - MEPATITIS - MEPATOCYTIC VACUOLIZATION	FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDNEYprogressive Renal Disease	. NOT SPECIFIED (MARKED)
UTERUS STROMAL POLYP	. NOT SPECIFIED (PRESENT)
HAMMARY GLANDS	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	. INFILTRATE INVOLVES NASO-LACRIMAL DUCT.

Appendix J (cont.):		THOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	MAL DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV CF RES SUPP. PATH SERV GP SPECIES: RAT/FISCHER-344	INDIV S STUDY START DAT	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84		PRINTED: 21-NOV-89 PAGE: 715 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 715 C/2 YR CARCINOGENIC
68 S DEAT		DOSE GROUP: 3 STUDY WEEK OF D	SACRIFICE STATUS: FINAL SACRIFICE EATH: 108 TERMINAL BODY WEIGHT:	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERNINAL BODY WEIGHT: 278.00 (GMS)	(GNS)
' _	3		OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	A T I O M S >> (SEVERITY) / SPECIAL COMMENTS	
MOSE/TURBINATES	ASAL CAVITY, SIMUSES,	:	NOT SPECIFIED(MILD)		
ADREMAL	a		NOT SPECIFIED(TRACE)		
PITUITARY GLAND	•	(PRESENT)			
EYES & OPTIC W	AL OR BILATERAL	:	NOT SPECIFIED(TRACE)		

APP LETTERMAN ARNY INSTITUTE OF R DIV OF RES SUPP, PATN SERV GP SPECIES: RAT/FISCHER-344	Appendix Letterman army institute of research DIV of res supp, patm serv gp species: rat/fischer-344	J (cont.):	INDIVIDUA DATA REPORT GLP83009
ANIMAL NUMBER: 369, DATE OF DEATH: 10-FEB-86	ANIMAL NUMBER: 369/PRETEST= Date of Death: 10-feb-86 Study Day o	369 SEX: FENALE IF DEATH: 750	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 327.00 (GMS)
ORGAN WANE	CC GROSS KEYWORDS / PHR/	ORGAN OB	SERVATEONS Y
SKIN LIVER SPLEEN UTERUS	ABSCESS(ES) PROMINENT LOBULAR MARKINGS ENLARGED (SPLENOHEGALY) HYPOPLASIA	PRESENT JLAR MARKINGS PRESENT NOMEGALY) TRACE PRESENT	.3CM DIAMETER, CLITORAL GLAND 4 x 1.25CM ENTIRE RIGHT HORN
TISSUE / HISTOPATHOLOGIC	TISSUE / MISTOPATMOLOGIC FINDINGS	. 0 P I C T I S S U E	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS -PARA-FOLLICULA	HYROID GLANDS	:" GELL, LIGHT GELL)	FOCAL (HILD)
EXORBITAL LACRIM -ACIWAR ATROPHY			NOT SPECIFIED(TRACE)
HEARTCARDIOMYOPATHY	EARTCARDIONYOPATHY		NOT SPECIFIED(MILD)
SPLEEN	PLEEN	A, HETASTATIC	. (PRESEUT)
LYMPH NODES	LYMPH MODES		. THERE IS MODERATE REACTIVE HYPERPLASIA IN CERVICAL LYMPH NODES IN SLIDE #4 ADJACENT TO SALIVARY GLAND. MESENTERIC LYMPH NODES
-REACTIVE HYPERPLASIA	PLASIA		ARE ESSENTIALLY NORMAL. NOT SPECIFIED (PRESENT)

endix J (cont.): P	SLOGY INDIVIDUAL ANIMAL DATA PRINTED: 21-NOV-89
SPECIES SALVET SERVICE SPECIES STUDY START DATE: 23-JAK-84	STUDY TYPE: CHRONI
# 369 SEX: FEMALE Y DAY OF DEATH: 750	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 327.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
	FROZEN LIVER SECTIONS STAINED WITH OIL-RED-O AND SUDAN BLACK REVEALED THE PRESENCE OF FAT IN VACUOLATED NEPATOCYTES NEAR DILATED SUNUSCIDS. NUMEROUS COLORLESS CYRSTALS ARE PRESENT IN THESE AREAS CORRESPONDING TO SPICULES ON NEE STAINS. SECTIONS STAINED WITH VON KOSSA AND ALIZARIN RED-S STAINS DEMONSTRATE BOTH PHOSPHATE AND CALCIUM PRESPECTIVELY.
	CONTRIBUTORY. INTERPRETATION: FATTY DEGREEATIVE CHANGES IN MEPATOCYTES LEADING TO NECROSIS AND SUBSEQUENT SAPONIFICATION OF ACCULLATED LIPID. THESE HISTOCHEMICAL FINDINGS ARE THE BASIS FOR DISABONSIS MAYOUT COALESCING MICROFESICULAR FATTY CHANGE LEADING TO MECOCOSIS
-MEPATOCYTIC DEGENERATIVE CHANGES (NOW-NECROTIC) -FOCUS OF CELLULAR ALTERATION - EOSINOPHILIC CELLS -M-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED (TRACE) MULTI-FOCAL(MILD) (PRESENT)
-MEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	MULTI-FOCAL(MODERATE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
MANMARY GLAMDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE ADJACENT NASO-LACRIMAL DUCT. Not specified(Mild)
ADRENAL	NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
WHOLE BODY	

MAL DATA PRINTED: 21-NOV-89 PAGE: 718 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	SACRIFICE STATUS: FINAL SACRIFICE ATH: 108 TERMINAL BODY WEIGHT: 327.00 (GMS)	<pre><< N CROSCOPIC TISSUE OBSERVATIONS >> TISSUE / NISTOPATHOLOGIC FINDINGS DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS</pre>	
DATA TYPE: CHR	AL SACRIF	COMMENTS	
ANIMAL	STATUS: FII	S >>	
PATHOLOGY INDIVIDUAL ANIMAL DATA IDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 DATE: 23-JAN-84	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 327.00 (GMS)	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	•
nt.): PATHOLOGY INDIVIDUAL INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009	369 SEX: FEMALE DOSE GROUP: 3 F DEATN: 750 STUDY WEEK OF DE	J E O B S E	(PRESENT)
E.): PO INDI UDY START DA	FEMALE D	0 P I C T I S S U E	V
J (cont.):	369 SEX: FEMALE OF DEATH: 750	0 P I C	11A
Appendix Jetterhan army institute of research bly of res supp. Path serv GP species: RAT/FISCHER-344	ANIMAL MUMBER: 369/PRETEST= 369 SEX: FED Date of Death: 10-feb-86 study day of Death: 750	* M I C R O S C	WHOLE BODY
Appendix Letterham army institute of research DIV of res supp, path serv gp species: rat/fischer-344	ANIMAL MUMBER: Date of Death: 10-fer	TISSUE / MISTOPATHOLOGIC FINDINGS	E BODY
SPEC	ANIM	1.188	Z +

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	SI
: 2 =	
ORGAN MAME KEYNORDS / PWRASES SEVERITY	A 7 1 0 M S >> GROSS FREE-TEXT COMMENTS
	ALSO PITTED, BILATERAL MOTFLED RED/BROWN, BILATERAL .SCM DIAMETER, DARK RED/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAIM	NOT SPECIFIED (PRESENT)
THYROID GLANDS	NOT SPECIFIED(TRACE)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -MEPA:OCYTIC VACUOLIZATION	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD) FOCAL(TRACE) NOT SPECIFIED(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
DUODENUM	TISSUE IS MISSING
MAMMARY GLANDS	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
ADREMALFOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED(MILD)
PITUITARY GLAND	

DATA
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J (cont.):
Appendix .

INSTITUTE OF RESEARCH PATH SERV GP SCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
ANIMAL MUNDER: 370/PRETEST= 370 SEX: FEMALE DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND DATE OF DEATH: 13-JAM-86 STUDY DAY OF DEATH: 722 STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 214.00 (GMS)	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND Study Week of Death: 104 Terminal Body Weight: 214.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PITUITARY GLAND	(PRESENT)
EYES & OPTIC W	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAIVEISCHER-344	INDIVIDUAL AN DATA REPORT GLP83009
371 SEX: FENALE DEATH: 750	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STATUS: FINAL SACRIFICE STATUS: FINAL SACRIFICE
C G R O S S O R G A N O B KEYWORDS / PHRASES	A T I O N S >> GROSS FREE-TEXT COM
LIVER MODULE(S) DIAPMRAGM MERMIA PRESENT PRESENT PRESENT PRESENT	.5 X.6CM, ASSOCIATED WITH DIAPHRAGMATIC HERNIA ASSOCIATED WITH LIVER MODULE DARK RED, .5CM DIAMETER
C NISTOPATHOLOGIC FINDINGS	0 B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
	TISSUE IS MISSING
EXORBITAL LACRIM	·· FOCAL(TRACE)
MEARTCARDIOMYOPATHY	NOT SPECIFIED(MILD)
SPLEEN	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
- RED BLOOD CEELS, HEMOSIDERIN AND/OR ERYTHROPHAGOCYTOSIS WITHIN MEDULLARY SINUSES	RBC'S AND HEMOSIDERIN PRESENT ONLY IN MEDIASTINAL NODES. Not specified (present)
LIVER	THE HYPERTROPHIC NODULE HAS NO HYPERPLASTIC CELLULAR CHANGES. THIS IS THE LESION OBSERVED GROSSLY IN ASSOCIATION WITH THE
-NEPATITIS -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -BENIGN HYPERPLASTIC MODULE(S) -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	DIAPHRAGMATIC HERNIA. MULTI-FOCAL(TRACE) FOCAL(TRACE) FOCAL(TRACE) MULTI-FOCAL(MILD)

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84
71 SEX: FEMALE DEATH: 750	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 272.00 (GMS)
. ° °	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MODERATE)
PANCREAS	MULTI-FOCAL(TRACE)
MANMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
ADRENAL	(PRESENT)
PITUITARY GLAND	(PRESENT)

Appendix J (cont.): PATE	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	IL DATA REPORT :: GLP83009
ANIMAL NUMBER: 372/PRETEST= 372 SEX: FEMALE DOSE ODATE OF DEATH: 07-FEB-86 STUDY DAY OF DEATH: 747 STUDY	ICE STATUS TERMINAL
M NAME KEYLORDS / PHRASES	A 1 1 0 M S >> GROSS FREE-TEXT
GLAND	5.5 x 1.6 x 1CM.
DISCOLORATION JAUNDICED	TWO FOCI ONE RED, ONE BLACK.
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	. MOT SPECIFIED(TRACE)
MEART	NOT SPECIFIED(TRACE)
LUNGSPMERSTITIAL, CHRONIC -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	(Present)
SPLEEN	(PRESENT)
LYMPH MODES	(PRESENT)
LIVER	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)

	Appendix	J (cont.):	Pathology	PATHOLOGY INDIVIDUAL ANIMAL DATA	NIMAL DATA	
LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH BIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 Study Start Date: 23-jam-84	DATA REPORT GLP83009	PRINTED: 21-NOV-89 PAGE: 724 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 724 C/2 YR CARCINGENIC
ANIMAL NUMBER: DATE OF DEATH:	ANIMAL HUMBER: 372/PRETEST= Date of Death: 07-feb-86 study day of	372 SEX: FEMALE OF DEATH: 747	DOSE GROUP: STUDY WEEK O	FICE	Î Î	
TISSUE / MISTOP	<pre></pre>	3 I d O	T 1 S S U E 0 B	O B S E R V A T I O N S -> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	>> /> /> /> /> /> /> /> /> /> /> /> /> /	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LIVERH- LARGE GRANI	IVER	A, METASTATIC	(PRESENT)	ENT.)		
KIDNEYPROGRESSIVE RI	IDNEY			NOT SPECIFIED(MILD)		
OVARIES	CORPORA LUTEA		HOT	NOT SPECIFIED (PRESENT)		
MAMMARY GLANDS -NYPERPLASIA AI -DILATATION (E	AMMARY GLAMDS	IE ACINAR TISSUE	NOT	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)		
MOSE/TURBINATES -MIXED INFLAMMA TURBINATES, NA	OSE/TURBINATES	, MASAL CAVITY, SINUSES,	:	INFILTRATE: BILATERAL ADJ Mot specified(Moderate)	INFILTRATE: BILATERAL ADJACENT NASO-LACRIMAL DUCTS. Not specified(moderate)	•
PITUITARY GLAND -6- ADENOMA	PITUITARY GLAND		(PRESENT)	ENT)		
EYES & OPTIC M	LARIZATION		CORN		S BILATERAL	
WHOLE BODY	MOLE BODY	AII.	(PRESENT)	ENT)		

	Appendix	J (cont.):	PATHOLOGY INDIVIDUAL ANIMAL DATA	
LETTERMAN ARNY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	ESEARCH	STUDY STAR	MAL DATA REPORT ER: GLP83009 -84	PRINTED: 21-NOV-89 PAGE: 725 C/2 YR CARCINGENIC
ANIMAL NUMBER: 373/ DATE OF DEATH: 07-FEB-86	PRETEST= STUDY DA		RIFICED MORI	8UND 241.00 (GMS)
ORGAN NAME	C G R O S S O KEYWORDS / PHRASE	80 X Y 9 X	S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS	
LIVER LIVER SPLEEN SPLEEN ADRENAL EYES & OPTIC M. PITUITARY GLAND	PROMINENT LOGULAR ADNESION(S) ENLARGED (SPLENOM DISCOLORATION CORNEAL OPACITY ENLARGED DISCOLORATION	AR MARKINGS OMEGALY)	PRESENT ABDOMINAL WALL. PRESENT ABDOMINAL WALL. PRESENT 8 X 2 X 1.5CM. PRESENT 2 WHITE DEPRESSED, FOCAL, .2CM AND .5CM DIAMETER PRESENT 2 WHITE DEPRESSED, FOCAL, .2CM AND .5CM DIAMETER PRESENT FOCAL, MULTIPLE. PRESENT DARK RED .4CM. PRESENT PALE DEPRESSED AREAS, BILATERAL.	·
TISSUE / HISTOPA	C M I C M O S C TISSUE / HISTOPATHOLOGIC FINDINGS	0 P 1 C 7 1 S	SUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	
THYROID GLANDS -PARA-FOLLICULA	MYROID GLANDS	LIGHT CELL)	NOT SPECIFIED(MILD)	·
HEART	EARTCARDIONYOPATHY		NOT SPECIFIED (TRACE)	
LUNGS INT -PNEUMONIA, INT -N- LARGE GRANU	UNGSPNEUNONIA, INTERSTITTAL, CHRONIC -N- LARGE GRANULAR LYMPHOCYTE LEUKENIA, METASTATIC	IA, METASTATIC		
SPLEEN	PLEEN	A, METASTATIC	(PRESENT)	
LYMPH NODES	YMPH HODES	A, HETASTATIC	(PRESENT)	
LIVER	-BILE DUCTULE EPITMELIAL MYPERPLASIA AND/ -BEMIGN MYPERPLASTIC NODULE(S)	AND/OR CHOLANGIOFIBROSIS	OSIS NOT SPECIFIED (TRACE) NOT SPECIFIED (TRACE)	

Appendix J (cont.): PATHOLOGY	AL ANIMAL DATA
STUDY START	INDIVIOUAL ANIMAL DAIA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
373/PRETEST# 373 SEX: FEMALE 7-FEB-86 STUDY DAY OF DEATH: 747	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 107 TERMINAL BODY WEIGHT: 241.00 (GMS)
TISSUE / MISTOPATMOLOGIC FINDINGS	OBSERVATIONS >>> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	(PRESENT)
KIDNEYPROGRESSIVE REMAL DISEASE	. WOT SPECIFIED(TRACE)
UTERUSINFILTRATE	NOT SPECIFIED(TRACE)
MANMARY GLANDS	NOT SPECIFIED (NODERATE) NOT SPECIFIED (PRESENT)
ADREMAL	FOCAL(MILD)
PITUITARY GLAND	(PRESENT)
EVES & OPTIC N	NOT SPECIFIED(TRACE) DIFFUSE(MODERATE)
UNOLE BODY	(PRESENT)

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TUTE OF RESEARCH H SERV GP -344 STUDY START DA	DATA REPORT GLP83009 STUDY TYPE: C
MBER: 374/PRETEST= 374 SEX: FEMALE EATH: 03-DEC-85 STUDY DAY OF DEATH: 681	SACRIFI DEATH: 98
ORGAN MAME KEYLORDS / PARASES SEVERITY	GROSS FREE-TEXT COMMENTS
GRANULAR SURFACE S DISTENDED B ENLARGED (SPLENOMEGALY) TARY GLAND DISCOLORATION	.5CM AREA IN MIDDLE SECTION OF RIGHT HORN TWO, FOCAL, RED, .12CM DIAMETER
TISSUE / HISTOPATWOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LUNGS	NOT SPECIFIED(TRACE)
SPLEEN	(PRESENT) NOT SPECIFIED (PRESENT)
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBRUSIS -NEPATOCYTIC VACUOLIZATION -NECROSIS, PERIACINAR -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	PERIACINAR NECROSIS IS PROBABLY SECONDARY TO ANEMIA. A LARGE ANOUNT OF IRON-POSITIVE PIGMENT IS PRESENT IN THE LIVER. NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) (PRESENT)
KIDNEY	NOT SPECIFIED (PRESENT)
UTERUS	NOT SPECIFIED (PRESENT)
CECUM	NOT SPECIFIED (PRESENT)
NAMMARY GLANDS	•

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA	
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009	V-89 Genic
374 SEX: FEMALE F DEATH: 681	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 98 TERMINAL BODY WEIGHT: 206.00 (GMS)	•
TISSUE / MISTOPATMOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	•
MAMMARY GLANDS	NOT SPECIFIED (MARKED) NOT SPECIFIED (PRESENT)	
NOSE/TURBINATES	INFILTRATE: SUPPURATIVE, BILATERAL, ADJACENT NASO-LACRIMAL DUCT Not specified(Hoderate)	JUCT
ADREMAL	NOT SPECIFIED(MILD)	
PITUITARY GLAND	(PRESENT)	
WHOLE BODY	(PRESERT)	,

I STUDY START	VIDUAL AMIMAL DATA REPORT STUDY NUMBER: GLP83009 TE: 23-JAW-84
75 SEX: FEMALE DEATH: 750	~ H
ORGAN NAME C G R D S S O R G A M O B S E R V A C C C C C C C C A M O B S E R V A C C C C C C C C C C C C C C C C C C	SERVATIONS >>> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT BLACK, FOCAL, .2CM DIAMETER
<pre></pre>	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	MULTI-FOCAL(TRACE)
HEARTCARDIOMYOPATHY	NOT SPECIFIED(TRACE)
LUNGS OF PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LYMPH NODES	LESION INVOLVES ONLY MEDIASTINAL NODES. Not specified (present)
LIVER NEPATITIS FOCUS OF CELLULAR ALTERATION BASOPHILIC CYSTIC DEGENERATION NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MECROSIS AND MINERALIZATION	MULTI-FOCAL(MILD) MULTI-FOCAL(MARKED) NOT SPECIFIED (PRESENT) MULTI-FOCAL(MILD)
KIDMET' /	NOT SPECIFIED(TRACE)
UTERUS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
PARCREAS	

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	IAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	PRINTED: 21-MOV-89 PAGE: 730 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
375 SEX: FEMALE DOSE GROUP: 3 DEATH: 750 STUDY WEEK OF DI	SATPIFICE STATUS: FINAL SACRIFICE EATH: 10. TERMINAL BODY WEIGHT: 267.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS TISSUE / MISTOPATHOLOGIC FINDINGS DISTRIBUTION (SE	O S S E R V. A T 1 O M C V V V V V V V V V V V V V V V V V V
PANCREAS FOCAL(TRACE)	
MAMMARY GLANDS	IE) (SENT)
NOSE/TURBINATES	RAL ADJACENT ASO-LA RIMAL UCT.
PITUITARY GLAND	
EYES & OPTIC N	SENT

Appendix J (cont.): Pl	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
376 SEX: FEMALE OF DEATH: 750	· O
GROSSORGAN OBERTHORDS / PHRASES	4 ×
SUBCUTANEOUS MASS IC N. CORNEAL OPACITY PARA-OVARIAN CYST(S)	
KIDNEY GRANDLAR SURFACE PRESENT PIUITARY GLAND ENLARGED	FLUID FILLED ENT DARK RED, 1CM DIAMETER
TISSUE / WISTOPATHOLOGIC FINDINGS	E O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	(PRESENT)
HEART	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LYMPH MODES	REACTIVE HYPERPLASIA IS LIMITED TO CERVICAL LYMPH NODES. Not specified (present)
LIVER	MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
FROGRESSIVE KEWAL DISEASE	NOT SPECIFIED (MODERATE)
URINARY BLADDER	TISSUE IS MISSING
OVARIESPARA-OVARIAN CYST(S)	MOT SPECIFIED (PRESENT)
PANCREAS	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	JRT S
ANIMAL NUMBER: 376/PRETEST= 376 SEX: FEMALE DOSE GROUP: 3 DATE OF DEATH: 10-FEB-86 STUDY DAY OF DEATH: 750 STUDY WEEK OF	DEATH
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS	FOCAL(TRACE)
MANNARY GLANDS	
-NYPERPLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE -GALACTOCELE(S)	TISSUE. NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
-B- FIBROADENOMA -DILATATION (ECTASIA) OF DUCTS AND DUCTULES -N- MANHARY ADENOCARCINOMA	(PRESENT) NOT SPECIFIED (PRESENT) (PRESENT)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	MILD HISTOLOGIC CHANGES CONSISTENT WITH SUBCAPSULAR CATARACT are present in both eyes. Not specified (present)

ANIMAL DATA
INDIVIDUAL A
PATHOLOGY
(cont.):
pendix J

		. (., , , ,)	FALBOADGE		THE THOUSANT THE	TVETNU	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344	E OF RESEARCH	STUDY STAI	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84		DATA REPORT GLP83009	T YOU IS	PRINTED: 21-NOV-89 PAGE: 733 >1UDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-MOV-89 PAGE: 733 C/2 YR CARCIMOGENI	10V-8 10GEN
DATE OF DEATH: 12-FEB-86	/PRETEST# STUDY DAY	377 SEX: FEMALE OF DEATH: 752		JUP: 3 EK OF DE	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT:	ATUS: FINA	S: FINAL SACRIFICE L BODY WEIGHT: 221.00 (GMS)	221.00 (GMS)	•
ORGAN MANE		6 A M O	B S E R V A SEVERITY	T I O N GROSS FR	S E R V A T I O N S ->- SEVERITY GROSS FREE-TEXT COMMENTS			•	
PITUITARY GLAND PARTIES UTERUS KIDNEY	ENLARGED CYST(S) WITHIN OV. GROWTH(S)/MASS(S) GRANULAR SURFACE	OVARY CS) CE	PRESENT PRESENT SERVIT	DISTAL RIG	DARK RED, .4cm DIAMETER, AMBER FLUID DISTAL RIGHT HORN, INTRALUMINAL,		FILLED .SCM DIAMETER		
C M I C M I C S (M I C M I C M I C M I C M I C M I C M I C M I I C M I I M I M) s c	3 1 4 0		O B S E O	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S >> Y) / SPECIAL COMMENTS	COMMENTS		:
LACRIMAL GLAND	TO CHRONIC			MULTI-FOC	HULTI-FOCAL(TRACE)				
NEARTCARDIOMYOPATHY MEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	MUSCULAR ARTERIE	IES		NOT SPECI	SPECIFIED(MILD) SPECIFIED(TRACE)				
SPLEEN	NOCYTE LEUKEMIA,	A, METASTATIC		(PRESENT)					
LYMPH MODES	YPERPLASIA			REACTIVE SALIVARY Not Speci	REACTIVE HYPERPLASIA PRESENT ONLY IN CERVICAL NODES ADJACENT SALIVARY GLANDS. Not Specified (Present)	SENT ONLY	IN CERVICAL NOD	ES ADJACE	NT 10
LIVER	L HYPERPLASIA ANI RATION - BASOPHII ION VE CHANGES (NOM-N	IND/OR CHOLANGIOFI		NOT SPECIFIED(TRACE) HULTI-FOCAL(TRACE) HULTI-FOCAL(TRACE) NULTI-FOCAL(TRACE) DIFFUSE(TRACE)	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE) DIFFUSE(TRACE) PRESENT)				
FIDNEYPROGRESSIVE REMAL DISEASE	ISEASE			NOT SPECI	NOT SPECIFIED (HARKED)				

RCH STUDY STAR	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
/PRETEST= 377 SEX: FEMALE STUDY DAY OF DEATH: 752	
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS	SPECIAL STAINS (PAS, MUCICARMINE, AND ALCIAN BLUE) WERE APPLIED IN ATTEMPTS TO CHARACTERIZE CONTENT OF LARGE FOAMY MACROPHAGES. IN SOME CELLS, THIS MATERIAL APPEARS TO BE EITHER MUCIN OR OTHER GLYCOPROTEIN. PROBABLY THIS SECTION WAS TAKEN WEAR THE CERVIX AND THE MATERIAL IS A SECRETORY PRODUCT OF CERVICAL EPITHELIUM. NOT SPECIFIED (PRESENT)
OVARIES	NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	EYE SECTION #19 B IS EMBEDDED IN THE WRONG PLANE OF SECTION. IT IS NOT POSSIBLE TO EVALUATE RETINA OR CORNEA IN THIS SECTION. OTHER THAN THE METAPLASTIC BONE IN THE SCLERA, THERE ARE NO LESIONS IN SECTION #19A. NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

IUIE UP RESEARCH H SERV GP -344 STUDY START DA	DATA REPORT GLP83009
PRETESTS 378 SEX: FEMALE STUDY DAY OF DEATH: 752	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 235.00 (GMS)
ORGAN NAME (GROSS ORGAN OBSERVA CETTORIALS DISCOLORATION ORGAN OBSERVA SEVERITY POLYP LIVER	GROSS FREE-TEXT COMMENTS GROSS FREE-TEXT COMMENTS RIGHT DISTAL HORN, . BCM DIAMETER, INTRALUMINAL LEFT LATERAL LOBE, RAISED, PALE, . 7CM DIAMETER
TISSUE / MISTOPATNOLOGIC FINDINGS	O B S E R V A T 1 O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROLD GLANDS	(PRESENT)
HEART	NOT SPECIFIED (MILD)
LUNGS	NOT SPECIFIED(TRACE) NOT SPECIFIED(TRACE)
LIVER HEPATITIS FOCUS OF CELLULAR ALTERATION - BASOPHILIC NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) NECROSIS, HEPATOCYTIC, INDIVIDUAL CELLS	HEPATOCYTIC DEGENERATIVE CHANGES AND HEPATOCYTIC NECROSIS IS LIMITED TO ONE LOBE, PRESUMABLY THE LOBE THAT WAS ABNORMAL GROSSLY. NO APPARENT REASON FOR THIS LESION WAS DETECTED MICROSCOPICALLY. MULTI-FOCAL(TRACE) NOT SPECIFIED(TRACE) DIFFUSE(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)
UTERUSENDOMETRIAL STROMAL POLYP	NOT SPECIFIED (PRESENT)
MANHARY GLANDS	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
ANIMAL NUMBER: 378/PRETEST= 378 SEX: FEMALE DOSE GI DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STUDY I	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 235.00 (GMS)
M I C R O S C O FINDINGS	PIC TISSUE OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
ADRENAL	NOT SPECIFIED(MODERATE)
PITUIT.RY GLAND	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	DATA REPORT GLP83009 STU
79 SEX: FEMALE DEATH: 752	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 276.00 (GMS)
AME KEYWORDS / PHRASES SEVERITY RY GLAND DISCOLORATION	T I O N S >> GROSS FREE-TEXT COMMENTS RED, FOCAL, .1CM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LACRIMAL GLAND	FOCAL (TRACE)
MEARTCARDIOMYOPATHY	NOT SPECIFIED(TRACE)
LUNGS PULMONARY ARTERIES	NOT SPECIFIED(TRACE)
LYMPH MODES	RBC'S AND HEMOSIDERIN ARE PRESENT ONLY IN A MEDIASTINAL NODE. Not specified (present)
LIVER	HULTI-FOCAL(TRACE) Multi-focal(Moderate)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
MOSE/TURBINATES	INFILTRATE: UNILATERAL ADJACENT MASO-LACRIMAL DUCT. Not specified(HILD)
BONE, STERNUM	

A	Appendix	ت ه	(cont.):	: :	PAT	HOLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	DUAL	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344	GP GP		STUC	IY STAR	INDIVID STU T DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA REPORT Study Number: Glp83009 T date: 23-Jam-84	ORT	STUDY	TYPE: CHR	PRINTED PAGE NIC/2 YR	PRINTED: 21-NOV-89 PAGE: 738 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 379/PRETEST DATE OF DEATH: 12-FES-86 STUDY DAY OF	379/PRETEST# -86 STUDY DAY	379 OF DEA	379 SEX: FEN F DEATH: 752	379 SEX: FEMALE F DEATH: 752	DOSE	DOSE GROUP: 3 STUDY WEEK OF	DEATH	RIFICE S	TATUS: FIN	SACRIFICE STATUS: FINAL SACRIFICE	CE 276.00 (GNS)	(GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	A MICROSC OGIC FINDINGS		u		S C E	OBS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	I O N S EVERITY)	/ SPECIAL	COMMENTS		
BONE, STERNUM							MULTI-FOCAL (PRESENT)	ESENT)				
BONE, FEMUR	•						MULTI-FOCAL (PRESENT)	ESENT)				
PITUITARY GLAND		•	•			THERE 1 AM LESIO		TOLOGIC (DISCOLORA BLY WAS N CAUSE FO	CORRELATE TION). B OT INCLUD	TO THE GRO ECAUSE OF ED IN TO P CHANGE IS	SS OBSERY THE SMALL LANE OF SI A BLOOD-F	THERE IS NO HISTOLOGIC CORRELATE TO THE GROSS OBSERVATION (A 1 MM RED FOCAL DISCOLORATION). BECAUSE OF THE SMALL SIZE OF LESION IT PROBABLY WAS NOT INCLUDED IN TO PLANE OF SECTION. THE MOST LIKELY CAUSE FOR SUCH A CHANGE IS A BLOOD-FILLED CYST.
EYES & OPTIC N	M AND/OR MI	ERALI	TATION	SCLE	×	S TON	NOT SPECIFIED (PRESENT)	RESENT				

Appendix J (cont.): PAT	Pathology individual animal data
STUDY STAR	DATA REPORT GLP83009
UMBER: 380/PRETEST 380 SEX: FEMALE DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 248.00 (GMS)
SES OR SES	
SKIN SUBCUTANEOUS NASS PRESENT SPLEEN ENLARGED (SPLENOHEGALY) TRACE	LEFT MEDIAL THIGH, SEMI-FIRM, WHITE, 4CM DIAMETER 4.5CM LONG
C H I C R O S C O P I C T I S S U E TISSUE / NISTOPATNOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SALIVARY GLAND	ONE SUBLINGUAL GLAND IS DIFFUSELY ATROPHIC. DIFFUSE(MILD)
NEART	NOT SPECIFIED(MILD) NOT SPECIFIED(MILD)
SPLEEN	. (PRESENT)
LYMPH MODES	THE MESENTERIC NODES ARE EXTENSIVELY INFILTRATED BY NEOPLASTIC LYMPHOCYTES. THERE IS MINIMAL INVOLVEMENT IN OTHER NODES (PRESENT)
LIVER	. (PRESENT) MULTI-FOCAL(TRACE)
KIDHEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
UTERUS	NOT SPECIFIED (PRESENT)
PANCREAS	•

Appendix J (cont.): PATHOLOGY INDIV	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	PORT PRINTED: 21-NOV-89 9 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 380/PRETEST= 380 SEX: FEMALE DOSE GROUP: 3 SACRIFICE DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STUDY WEEK OF DEATH: 108 TE	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 248.00 (GMS)
P.C. T.SSUE	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
PANCREAS FOCAL(TRACE) -ACINAR (EXOCRINE) ATROPHY	
SKIN	E SUBCUTIS OF THE LEFT THIGH IS A FIBROMA.
MAMMARY GLANDS	H1LD)
PITUITARY GLAND	
EYES & OPTIC M SLIGHT CHANGES COMPATIBLE WITH CATARACT NOT SPECIFIED	
WHOLE BODY	

pendix J (cont.):	INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
81 SEX: FEMALE DEATH: 752	M L
GROSSO KETUORDS/PHRASI ENLARGED	GROSS FREE-TEXT COMMENTS -4CM DIAMETER, FOCAL DARK RED DISCOLORATION LEFT SIDE, -2 x .3CM
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MEARTCARDIONYOPATHY	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE)
LYMPN WODES	RBC'S AND HEMOSIDERIN PRESENT ONLY IN A MEDIASTINAL NODE
LIVER	WOT SPECIFIED(MILD) NOT SPECIFIED(MODERATE)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
UTERUSOILATATION OF THE ENDOMETRIAL GLANDS	NOT SPECIFIED (PRESENT)
PANCREAS	FOCAL (TRACE)
MAMMARY GLANDS	NOT SPECIFIED (PRESENT)
PITUITARY GLAND	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY MUNBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	PRINTED: 21-NOV-89 PAGE: 742 C/2 YR CARCINGENIC
ANIMAL NUMBER: 361/PRETEST= 381 SEX: FEMALE DOSE GROUP: 3 DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STUDY WEEK OF DEA	E DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 288.00 (GMS)	8.00 (GMS)
TISSUE / MISTOPATNOLOGIC FINDINGS	* NISTOPATHOLOGIC FINDINGS COPIC TISSUE OBSERVATIONS >>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PITUITARY GLAND	(PRESENT)	
EYES & OPTIC M	:	

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
TE OF RESEARCH Serv GP 44 Study Star	DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2
SEX: FEMALE ATH: 701	DOSE GROUP: 3 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 262.00 (GMS)
C G R O S S O R G A N O B KEYUORDS / PMRASES	A T I O M
ADMESION(S) MENORMAGE(S) MENORMAGE(S) CORMEAL VASCULARIZATION	MULTIPLE, SEROSAL MULTIPLE, 2-3MM DIAMETER SEEN THROUGH SEROSA MULTIPLE, 2-3MM DIAMETER SEEN THROUGH SEROSA BILATERAL
.	.SCM DIAMETER, RED/BLACK 0 B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	TISSUE IS MISSING
HEART	NOT SPECIFIED(MILD)
THYNUS	TISSUE IS MISSING
LIVERHEPATITIS -FIBROSIS CAPSULAR MO COMPOUND -FIBROSIS CAPSULAR MO COMPOUND -BENIGM MYPERPLASTIC MODULE(S)	. MULTI-FOCAL(TRACE) FOCAL (PRESENT) FOCAL(TRACE)
KIDNEY	NOT SPECIFIED(TRACE)
UTERUSDILATATION OF THE UTERINE LUMEN (HYDROMETRA)	UNILATERAL HYDROMETRA Not specified (present)
JEJUNUM	TISSUE IS AUTOLYTIC
ILEUM	TISSUE IS AUTOLYTIC
MANHARY GLANDS	

Appendix J (cont.): PATHOLOGY INDIVIDUAL LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GF CAPPINGS OF THE SERVER OF THE STATE OF T	INDIVIDUAL ANI DATA REPORT GLP83009
/PRETEST= 382 SEX: FEMALE STUDY DAY OF DEATH: 701	STUDY TYPE: CHRONIC/2 YR CARCINGENIC DOSE GROUP: 3 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 101 TERMINAL BODY WEIGHT: 262.00 (GMS)
TISSUE / MISTOPATNOLOGIC FINDINGS COPIC TISSUE DISTRI	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MANNARY GLANDS	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
APRENAL	FOCAL (TRACE)
PITUITARY GLAND	(T)
EYES & OPTIC N CATARA CORNEAL VASCULARIZATION NOT SPI -LENTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT NOT SPI	CATARACT IS SUBCAPSULAR AND BILATERAL CORNEAL VASCULARIZATION IS BILATERAL NOT SPECIFIED (PRESENT)

DATA
ANIMAL
INDIVIDUAL
PATHOLOGY
(cont.):
Appendix J

INDI STUDY START DA	VIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83009 TE: 23-JAN-84
FEMALE 752	SACRI DEATH: 108
	GROSS FREE-TEXT COMMENTS GROSS FREE-TEXT COMMENTS FIRM, WHITE, 2.5 X 2CM BILATERAL SCM DIAMETER, DARK RED
C NICROSCOPIC TISSUE / MISTOPATHOLOGIC FINDINGS	D B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIMACINAR ATROPHY	FOCAL (TRACE)
MEART	NOT SPECIFIED(MILD)
LIVER	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDNEYPROGRESSIVE REGAL DISEASE	NOT SPECIFIED (MODERATE)
UTERUS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
PANCREASACINAR (EXOCRIME) ATROPNY	MULTI-FOCAL (MARKED)
RECTUM	(PRESERT)

Appendix J (cont.): PATHC	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	20
R: 384/PRETEST# 384 SEX: FUNALE N: 12-FEB-86 STUDY DAY OF DEATH: 752	DOSE CROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 247.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
SKIR	THE MASS IN THE PERIMEAL AREA IS A FIBROSARCOMA. MASSON'S TRICHROME STAIN APPLIED TO SECTIONS OF THIS NEOPLASM DEMONSTRATED ABUNDANT COLLAGEM BEING PRODUCED BY THE MEOPLASTIC CELLS. THE HISTONORPHOLOGY OF THE TUMOR CELLS AND THE PRESENCE
-M- FIBROSARCOMA	OF COLLAGER IS THE BASIS FOR THE DIAGNOSIS OF FIBROSARCOMA. (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (MODERATE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	AVITY, SINUSES, NOT SPECIFIED(MILD)
ADRENAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	. NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)

Appendix J (cont.): PA	PATHOLOGY INDIVIDUAL ANIMAL DATA
IND STUDY START D	DATA REPORT GLP83009
385 SEX: FEMALE DEATH: 671	DOSE GROUP: 3 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 96 TERMINAL BODY WEIGHT: 228.00 (GMS)
A GROSS ORGAN OF	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS
UNDLE BODY POST KORTEN AUTOLYSIS. PRESENT SPLEEN	
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TRACHEA	TISSUE IS AUTOLYTIC
THYROLD GLANDS	TISSUE IS AUTOLYTIC
PARATHYROID	TISSUE IS AUTOLYTIC
ESOPHAGUS	TISSUE IS AUTOLYTIC
HEART	NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE) (PRESENT)
SPLEEN	(PRESENT)
LIVERFOCUS OF CELLULAR ALTERATION - BASOPHILIC - HEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) - N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	FOCAL(TRACE) DIFFUSE(MILD) (PRESENT)
KIDMEYPROGRESSIVE REWAL DISEASE	AUTOLYTIC CHANGE IS PRESENT, NOWEVER IT IS POSSIBLE TO DETECT PROGRESSIVE RENAL DISEASE, GRADE 1. Not specified(trace)
UTERUS	•

Appendix J (cont.): PATHOLOGY INDIVIDUAL ANIMAL DATA	L ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: GLP83409 SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	PRINTED: 21-NOV-89 PAGE: 749 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 365/PRETEST 385 SEX: FEMALE DOSE GROUP: 3 SACRIFICE DATE OF DEATH: 23-NOV-85 STUDY DAY OF DEATH: 671 STUDY WEEK OF DEATH: 96 T	SACRIFICE STATUS: FOUND DEAD 1: 96 TERMINAL BODY WEIGHT: 228.00 (GMS)
CAMICROSCOPIC TISSUE OBSERVATION (SEVERIT	O B S E R V A T 1 O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUSNOT SPECIFIED (PRESENT)	. CINE
DUODENUM TISSUE IS AUTOLYTIC	
JEJUNUM TISSUE IS AUTOLYTIC	
ILEUM TISSUE IS AUTOLYTIC	
PANCREAS TISSUE IS AUTOLYTIC	
CECUM TISSUE IS AUTOLYTIC	
RECTUM TISSUE IS AUTOLYTIC	
COLOM TISSUE IS AUTOLYTIC	
STOMACH TISSUE IS AUTOLYTIC	
ENOIE BODY	

Appe Letterman army institute of Ri Div of Res Supp. Path Serv GP	ndix J (cont.): Eseance	INDIVIDUAL ANI DATA REPORT GLP83009
ANIMAL NUMBER: 346/PRETESTE DATE OF DEATH: 08-001-85 STUDY	STUDT START 386 SEX: FEMALE DAY OF DEATH: 625	
ORGAN NAME	8 V U W	S E R V A T I O M S >> SEVERITY GROSS FREE-TEXT COMMENTS
RECTUR	MUCHOID DISCHARGE PISCOLORATION PASS(ES)	PRESENT YELLOW, POSTERIOR END COVERED WITH BLACK NARDENED MATERIAL. PRESENT GENERALLY PALE PRESENT CECUM DISTENDED, CONTAINS A 4 X 2.5 X 2CM PEDUNCULATED MASS,
UTERUS	GROUTH(S)/MASS(S) PI	HOLLOW, CLEAR FLUID FILLED PRESENT BROWN/RED, SEMI-FIRM, 2.5 X 1.5 X 1.5CM, DISTAL END OF LEFT HORN WHICH IS ENLARGED, INTRALUMINAL.
TISSUE / HISTOPATHOLOGIC FINDINGS	COPIC TINDINGS	U E O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	HYROID GLANDS	NOT SPECIFIED(TRACE)
EXGRBITAL LACRIM - ACINAR ATROPHY		MULTI-FOCAL (TRACE)
MEDIAL HYPERTROPH	EART	NOT SPECIFIED(MILD)
SPLEEN		NOT SPECIFIED (PRESENT)
LYMPH NODES	YMPH MODES	NOT SPECIFIED (PRESENT)
- FOCUS OF CELLULAR ALTERATION BENIGN HYPERPLASTIC NODULE(S)	OF CELLULAR ALTERATION - CLEAR CELLS N HYPERPLASTIC NODULE(S)	MULTI-FOCAL(MILD) NOT SPECIFIED(TRACE)
KIDMEY	SSIVE REWAL DISEASE	NOT SPECIFIED(TRACE)

Appendix J (cont.): OF RESEARCH RV GP	INDIVIDUAL ANI DATA REPORT GLP83009
ANIMAL NUMBER: 386/PRETEST 386 SEX: FEMALE DOSE GROUP: 3 DATE OF DEATH: 08-OCT-85 STUDY DAY OF DEATH: 625 STUDY WEEK OF	STUDY TYPE: CHRONIC/2 YR CARCINOGENIC DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 90 TERMINAL BODY WEIGHT: 215.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS	
CECUM POLYP	(PRESENT)
COLON WITH MUCOUS GLAND HYPERPLASIA AND HYPERSECRETION DIFFUSE(MILD)	DIFFUSE(MILD)
MAMMARY GLANDS	NOT SPECIFIED(TRACE)
ADRENALFOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED(TRACE)

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PATH SERV GP	DATA REPORT GLP83009
STUDY START D EST 387 SEX: FEMALE TUDY DAY OF DEATH; 752	ATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINOGENIC DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL RORY DETCHT.
C G R O S S O R G A N O B S KEYWORDS / PHRASES SE	T I O M S >> GROSS FREE-TEXT COMMENTS PROXIMAL RIGHT HORN, INTRALUMINAL
TISSUE / HISTOPATHOLOGIC FINDINGS	.1CM DIAMETER D B S E R V A T I D N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LUNGS	NOT SPECIFIED(TRACE)
SPLEENSMOOTH WUSCLE HYPERTROPHY, CAPSULE AND TRABECULAE	NOT SPECIFIED (PRESENT)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -NEPATITIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	FOCAL(TRACE) MULTI-FOCAL(TRACE) MULTI-FOCAL(TRACE)
KIDMEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
UTERUSSTROMAL POLYP -ENDOMETRIAL GLANDS -CYSTIC DILATATION OF THE ENDOMETRIAL GLANDS	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE ADJACENT NASO-LACRIMAL DUCT. Not specified(Mild)
ADREMAL	NOT SPECIFIED(TRACE)
PITUITARY GLAND	

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Appendix	INSTITUTE OF RESEARCH

LETTERMAN ARMY	LETTERMAN ARMY INSTITUTE OF RESEARCH		INDIVIDUAL ANIMAL DATA REPORT		PRINTED: 21-NOV-89
DIV OF RES SUP	DIV OF RES SUPP, PATH SERV GP		STUDY NUMBER: GLP83009		PAGE: 753
SPECIES: RAT/FISCHER-344	1SCHER-344	STUDY START	STUDY START DATE: 23-JAN-84	STUDY TYPE: CHRONIC/2 YR CARCINGGENIC	R CARCINOGENIC
ANIMAL NUMBER:	AKIMAL NUMBER: 367/PRETESTS 3		DOSE GROUP: 3	87 SEX: FEMALE DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE	f 4 + + + + + + + + + + + + + + + + + +
DATE OF DEATH:	DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752	OF DEATH: 752	STUDY WEEK OF D	DEATH	0 (GMS)
TISSUE / HISTO	TISSUE / HISTOPATHOLOGIC FINDINGS	,		DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	

NOT SPECIFIED (PRESENT)

PITUITARY GLAND-...-...-

Appendix J (cont.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
INDIVID STU STUDY START DATE:	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
NUMBER: 388/PRETEST= 388 SEX: FEMALE DOSE F DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STUD	1 10
CETUORDS / PHRASES SEV	S E R V A T I O N S ->- SEVERITY GROSS FREE-TEXT COMMENTS
PITUITARY GLAND ENLARGED PRESENT	DARK RED, . SCM DIAMETER
TISSUE / HISTOPATMOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	FOCAL (TRACE)
KEART	NOT SPECIFIED(TRACE)
SPLEEN	NOT SPECIFIED (PRESENT)
LYMPH HODES	RBC'S AND HEMOSIDERIN LIMITED TO A MEDIASTIANL WODE. Not specified (present)
-FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NEPATOCYTIC VACUOLIZATION -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	MULTI-FOCAL(M1LD) NOT SPECIFIED(TRACE) MULTI-FOCAL(M1LD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED (MODERATE)
UTERUS	NOT SPECIFIED (PRESENT)

(cont.): IN STUBY START	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 388/PRETEST# 388 SEX: FEMALE DOSE GROUP: 3 DATE OF DEATH: 12-FEB-86 STUDY DAY OF DEATH: 752 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 262.00 (GMS)
MICROSCOPIC TISSUE FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	SECTION #21 HAS A SECTION OF SKIN WITH ADJACENT HYPERPLASTIC MAMMARY TISSUE SIMILAR TO THAT IN SECTION #15. THERE IS NO NOTATION AS TO THE LOCATION OF THIS TISSUE. NOT SPECIFIED(MILD)
MOSE/TURBINATES	
ADREMAL	MULTI-FOCAL(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC M	NOT SPECIFIED (PRESENT)
	THERE IS INFLAMMATION OF BROWN FAT IN SEVERAL LOCATIONS :THE MEDIASTINUM NEAR THE THYMUS, THE PERIRENAL FAT, AND IN THE MESENTARY. IN SECTION #21 THERE IS A FOCAL AREA OF MECROTIC FAT.
-INFLAMMATION OF BROWN FAT, (LOCATION SPECIFIED IN CONNENTS)	NOT SPECIFIED (PRESENT)

	STUDY TYPE: CHRONIC/2 YR CARCINGENIC
90 SEX: FEMALE DOSE GROUP DEATH: 752 STUDY WEEK	FICE STATU
OBSERUT GR	T I O M S >>> CROSS FREE-TEXT COMMENTS
PRESENT MARKINGS PRESENT PRESENT	THREE .34CM DIAMETER .2CM DIAMETER
C MICROSCOPIC TISSUE OBSE OBSE OBSE OBSE OBSE OBSE OBSE OBS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MYROID	
MEART	NOT SPECIFIED(MILD)
LYMPH NODES	RBC'S AND HEMOSIDERIM ARE PRESENT ONLY IN A MEDIASTINAL MODE. Histiocytic infiltration involves only the mesenteric nodes. Not specified (present)
ID MEDULLARY SINUSES	NOT SPECIFIED (PRESENT)
-BILE DUCTULE EPITHELIAL NYPERPLASIA AND/OR CHOLANGIOFIBROSIS NOT SPECIFIED(NIL-NEPATITIS NOT SPECIFIED(TRA-NECROSIS, NEPATOCYTIC, INDIVIDUAL CELLS -BENIGM HYPERPLASTIC NODULE(S) -BENIGM HYPERPLASTIC NODULE(S) -FIBROSIS, PARENCHYMAL (SCARRING) -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO MULTI-FOCAL(MODER NECROSIS AND MINERALIZATION	NOT SPECIFIED(MILD) NOT SPECIFIED(TRACE) MULTI-FOCAL(MILD) FOCAL(MARKED) MULTI-FOCAL(MODERATE)
PANCREAS(PRESENT)	
MAMMARY GLAMDS	NOT SPECIFIED(MILD)

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Appendix J (cont.): PATHOLOGY	OGY INDIVIDUAL ANIMAL DATA
	DATA REPORT GLP83009 Study Type: Chro
391 SEX: FEMALE DEATH: 752	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 285.00 (GMS)
25 A 25 A	•
OVARIES PARA-OVARIAN CYST(S) PRESENT	1CM DIAMETER
UTERUS NYDROMETRA PRESENT PITUITARY GLAND EMLARGED PRESENT	LEFT BILATERAL .4CM DIAMETER, FOCAL DISCOLORATION, DARK RED, .3CM DIAMETER
C NISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM	FOCAL (TRACE)
HEARTCARDIOMYOPATHY	NOT SPECIFIED(HILD)
LUNGS	FOCAL (TRACE)
LYMPH NODES	RBC'S AND HEMOSIDERIN LIMITED TO A MEDIASTIANL NODE. Not specified (present)
LIVER -FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NECROSIS -NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	MULTI-FOCAL(MILD) FOCAL(TRACE) MULTI-FOCAL(MODERATE)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(MILD)
UTERUSDILATATION OF THE UTERINE LUMEN (HYDROMETRA)	NOT SPECIFIED (PRESENT)

Appendix	ٽ ص	(cont.):	::	PATH	OLOGY	PATHOLOGY INDIVIDUAL ANIMAL DATA	UAL	ANIMAL	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		STU	DY STAR	STUD STUD F DATE:	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	DAT	T &	STUDY	TYPE: CHRO	PRINTEL PAGI NIC/2 YR	PRINTED: 21-NOV-89 PAGE: 760 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 391/PRETEST= DATE OF DEATH: 12-FEB-86 STUDY DAY OF	391 OF DEA	391 SEX: FEN DEATH: 752	391 SEX: FEMALE DEATH: 752	DOSE STUD	DOSE GROUP: 3 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT:	IFICE ST	ICE STATUS: FINAL SAC TERMINAL BODY WEIGH	AL SACRIFIC	CE 285.00 (GMS)	(GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS		Ú	PIC TISSUE	о Э	O B S DISTR	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL CONNENTS	I O N S	/ SPECIAL	COMMENTS	•	
UTERUS	L GLAND		LANDS		 ROT S	NOT SPECIFIED (PRESENT)	RESENT)				
OVARIES						NOT SPECIFIED (PRESENT)	RESENT)				
SKELETAL MUSCLE						MULTI-FOCAL(MILD)	•				
MAMMARY GLANDS		ACINAR TISSUE ULES	SUE	•	S TON :	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)	ACE) Resent)				
PITUITARY GLAND				•	. (PRESENT)	£					

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP. PAIN SERV GP	2414 BEB201
STUDY START DA	STUDY NUMBER: GLP83009 TE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
392 SEX: FEMALE DEATH: 495	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 71 TERMINAL BODY WEIGHT: 237.00 (GMS)
COROSS ORGAN OSS	T 1 D X S >> GROSS FREE-TEXT COMMENTS
SKIR ABSCESS(ES)	MULTIPLE, 11-3CM DIAMETER, FOCAL, COVERED WITH RED/BLACK CRUSTY EXUDATE, LOCATED BEHIND EARS AND OVER RIGHT SCAPULA
<pre></pre>	O B S E R V A T I O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVER	MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(MILD)
OVARIES	
RECTUM	TISSUE IS MISSING
SKINEROSION/ULCERATION OF THE SKIN SURFACE	HULTI-FOCAL (PRESENT)
MAMMARY GLANDS	TISSUE IS MISSING
BONE, STERNUM	THIS ANIMAL IS VERY SIMILAR TO THAT IN ANIMAL #84D0030, (XYBIOW #140). IN ANIMAL #392, THE LESION IS PRESENT IN THE MARROW OF THE STERMUM, FEMUR, AND VERTEBRAE. IT CONSISTS OF NUMEROUS LARGE HISTIOCYTIC CELLS. NO ORGANISMS WERE DETECTED IN SECTIONS STAINS. MANY OF THE HISTIOCYTIC CELLS CONTINUE, GOODPASTURE, PASDORE THE MANY OF THE MISTIOCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL SEE ANIMAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCYTIC CELLS CONTAINED PASDORETTICLE MATERIAL #1571OCY
-MYELOID HISTIOCYTOSIS	FUSITIVE MATERIAL. SEE ANTRAL STAG FOR ADDITIONAL COMMENTS. Not specified (Present)

Appendix J (cont.): PATHOLOGY : LETTERHAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAM-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
/PRETEST= 393 SEX: FEMALE STUDY DAY OF DEATH: 754	SACRIFICE STATU EATH: 108 TERNINA
ORGAN MANE KEYLORDS / PHRASES SEVERITY FITUITARY GLAND DISCOLORATION NEART UTERUS ABSCESS(ES)	GROSS FREE-TEXT COMMENTS GROSS FREE-TEXT COMMENTS DARK, RAISED, 1CM DIAMETER .2CM 'WHITE, LEFT VENTRICLE3CM ENDOMETRIAL RIGHT HORN, PALE.
C NISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TRACHEA	NOT SPECIFIED(TRACE)
HEARTCARDIOMYOPATHY	THE "NODULE" NOTED GROSSLY CONSISTS OF A WELL-DEMARCATED AREA OF MATURE FIBROUS CONNECTIVE TISSUE WITH A FEW ENTRAPPED ATROPHIC MYOCARCIAL FIBERS. THIS LESION MAY BE A HEALED INFARCT OR A RATHER UNUSUAL MANIFESTATION OF THE CARDIOMYOPATHY COMMON IN THIS STRAIN OF RAT.
LUNGS	NOT SPECIFIED (TRACE)
LIVER	NOT SPECIFIED(TRACE) NOT SPECIFIED(MILD) NOT SPECIFIED(MILD) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REMAL DISEASE	NOT SPECIFIED(TRACE)
UTERUS	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
393 SEX: FEMALE DEATH: 754	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 244.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
UTERUS POLYP	NOT SPECIFIED (PRESENT)
SKIN	(PRESENT)
MAMMARY GLANDS	A MAMMARY FIBROADENOMA IS PRESENT IN SLIDE #21 IMMEDIATELY
-HYPERPLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE -B- FIBROADENOMA -DILATATION (ECTASIA) OF DUCTS AND DUCTULES	ADJACENT TO THE CLITORAL GLAND ADENOMA. Not specified (trace) (present) Not specified (addesent)
ADRENAL -FOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED (TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
AD SEBACTOUS TISSUE IS MISSING	TISSUE IS BISSING

LETTERMAN ARMY INSTITUTE OF R DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344		a c	INDIVIDUAL ANIMAL DATA REPORT STUDY MUMBER: GLP83009 T DATE: 23-JAM-84		PRINTED: 21-NOV-89 PAGE: 765 STUDY IYPE: CHRONIC/2 YR CARCIMOGENIC	PRINTED: 21-NOV-89 PAGE: 765 IIC/2 YR CARCINGENI	V-89
ANIMAL NUMBER: DATE OF DEATH: 0:	394/PRETES Aug-85 STU	3 Y OF	:	: 3 OF DEA	RIFICE STATU	E STATUS: FOUND DEAD TERMINAL BODY WEIGHT:	248.00 (GMS)	
N NAME	CC GROSS OF KEYWORDS / PHRASE	PERASES A N	OBSERV SEVERIT	A T	1 O N S >> OSS FREE-TEXT COMMENTS		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
PERITOMEAL CAV. Spleen Liver	FLUID-FILLED ENLARGED (SPLENOM PROWINENT LOBULAR	FLUID-FILLED ENLARGED (SPLENOMEGALY) PROMINENT LOBULAR MARKINGS	PRESENT PRESENT PRESENT		2.5ML, SEROSANGUINOUS 7 X 2.2 X .5CM			
L:VER Kidhey Kidhey	GRANULAR SURFACE DISCOLORATION CYST		PRESENT PRESENT PRESENT	DIFFUSELY BR ZMM DIAMETER	DIFFUSELY BROWN, BILATERAL 2mm diameter at Junction of Cortex and Renal Pelvis	ORTEX AND RENAL	PELVIS	
TISSUE / MISTOPATHOLOGIC FINDING	:0%	3 1 d 0 3 s	ISSUE	O B S E R V A DISTRIBUTION	T I O N S	>> / SPECIAL COMMENTS		
THYROID GLANDS 6- PARA-FOLLICU	HYROID GLANDS			(PRESENT)				
PARATHYROID		•			TISSUE IS MISSING ANIMAL HAS A LARGE THYROID ADENOMA. TO DETECT PARATHYROID GLANDS.		RECUTS OF SECTION FAILED	
LUNGS	UNGS	ENIA, HETASTATIC		(PRESENT)				
THYMUS	NYMUS	EMIA, METASTATIC		. (PRESENT)				
SPLEEM	PLEEN	: ₩	TASTATIC	. (PRESENT)				
LYMPH NODES	YMPH WODES	• ш	TASTATIC	(PRESENT)				
LIVER	IVER	A AND/OR CHOLANG	10F1BROS1S	. NOT SPECIFIED(MILD)	(M1LD)			

Appendix J (cont.): PATHC	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	DATA REPORT GLP83009 STUDY T
394/PRETEST= 394 SEX: FEMALE G-85 STUDY DAY OF DEATH: 558	DOSE GROUP: 3 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 80 TERMINAL BODY WEIGHT: 248.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> OBSERVATIONS >> OBSERIBUTION (SEVERITY) / SPECIAL COMMENTS
LIVERPERIACINAR -WECROSIS, PERIACINAR -W. LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT)
KIDNETPROGRESSIVE RENAL DISEASECYST(S) CORTICAL	NOT SPECIFIED(TRACE) FOCAL (PRESENT)
OVARIESFOLLICULAR CYST(S) -CYSTIC CORPORA LUTEA	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	INFILTRATE: BILATERAL ADJACENT NASO-LACRIMAL DUCTS. L CAVITY, SINUSES, NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
WHOLE BODY	(PRESENT)

Appendix J (cont.): PATHOLOGY LETTERNAN ARNY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAI/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINOG
395/PRETEST= 395 SEX: FEMALE EP-85 STUDY DAY OF DEATH: 600	DEA
ORGAN MAME ** G R O S S O R G A M O B S E R V I WHOLE BODY ** MO GROSS LESIONS RECOGNIZED PRESENT	S E R V A T I O M S >> SEVERITY GROSS FREE-TEXT COMMENTS PRESENT
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
TRACHEA	FOCAL (TRACE)
EXORBITAL LACRIM TISSUE IS MISSING	TISSUE IS MISSING
LUNGS GRANULONATOUS	MULTI-FOCAL(MILD)
PANCREAS	MULTI-FOCAL(TRACE)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
MOSE/TURBINATES	INFILTRATE: INILATERAL ADJACENT NASO-LACRIMAL DUCT. Focal(trace)
EAR	NOT SPECIFIED (MODERATE)

Appendix J (cont.): P	PATHOLOGY INDIVIDUAL ANIMAL DATA
STUDY STAR	DATA REPORT GLP83009
BER: 396/PRETEST= 396 SEX: FEMALE ATH: 15-NOV-85 STUDY DAY OF DEATH: 663	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 95 TERMINAL BODY WEIGHT: 218.00 (GMS)
C G R O S S O R G A N O B KEYWORDS / PHRASES	<
LIVER GRANULAR SURFACE LIVER PROBLEM PRESENT SPIEEN FORDINENT LOBULAR MARKINGS PRESENT KIDNEY DISCOLORATION PRESENT SKIN DISCOLORATION PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT PRESENT	PRESENT PRESENT PRESENT 6 X 2 X 2CM PRESENT YELLOW PRESENT YELLOW PRESENT YELLOW PRESENT YELLOW, SUBCUTANEOUS PRESENT FOCAL, .3CM DIAMETER, RED/BLACK MILD
C NISTOPATHOLOGIC FINDINGS	E O B S E R V A 7 1 0 N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDSPARA-FOLLICULAR CELL HYPERPLASIA ("C" CELL, LIGHT CELL)	FOCAL (TRACE)
LUNGS	(PRESENT)
SPLEEN	FOCAL(TRACE) (PRESENT)
LYMPH NODES	(PRESENT)
-CYSTIC DEGENERATION -CYSTIC DEGENERATION -HEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -N- LARGE GRANULAR LYMPHOCYTE LEUKENIA, NETASTATIC	NOT SPECIFIED (PRESENT) NOT SPECIFIED(TRACE) (PRESENT)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED(TRACE)

Appendix J (cont.): PATHOLO	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA GLP83
396/PRETEST= 396 SEX: FEMALE 5-NOV-85 STUDY DAY OF DEATH: 663	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 95 TERMINAL BODY WEIGHT: 218.00 (GMS)
PIC TISSUE	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
URINARY BLADDER TISSUE IS MISSING	ISSUE IS MISSING
UTERUS	NOT SPECIFIED (PRESENT)
PANCREAS 00 01 02 03 04 05 06 06 06 07 07 07 07 08 08 08 08 08 08 08 08 08 08 08 08 08	THE MULTIFOCAL PERITONITIS IS CHRONIC AND IS SITUATED IN THE OMENTAL FAT ADJACENT TO THE PANCREAS. SEVERAL HAIR SHAFTS ARE PRESENT IN AREAS OF CHRONIC INFLAMMATION. THESE MAY HAVE BEEN INTRODUCED TO THIS LOCATION DURING THE SURGERY.
HAMMARY GLANDS	NOT SPECIFIED (MILD) NOT SPECIFIED (PRESENT)
ADRENALFELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	NOT SPECIFIED (PRESENT)
WHOLE BODY	(PRESENT)

(cont.): PJ INDI STUDY START DA	INDIVIDUAL DATA REPORT GLP83009
397 SEX: FENALE : DEATH: 754	: 3 SACRIFICE STATUS: FIN OF DEATH: 108 TERMINAL BODY
C G R O S S O R G A N O B KEYLORDS / PHRASES	T I O N S >>
LIVER DISCOLORATION PRESENT KIDNEY CLAND ENLARGED PRESENT PITUITARY GLAND ENLARGED PRESENT KIDNEY GRANULAR SURFACE PRESENT	MULTIFOCAL, RED, .36CM DIAMETER PALE .6CM DIAMETER. BILATERAL
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O W S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	FOCAL (TRACE)
EXORBITAL LACRIMACIMAR ATROPHY	FOCAL (TRACE)
LUNGS	THE MINIMAL ALVEOLAR HEMORRHAGE IS PROBABLY DUE TO AGONAL Aspiration of Blood. Focal(trace) Focal (present)
LIVER	MULTI-FOCAL(TRACE) MULTI-FOCAL(MILD) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
OVARIESPARA-OVARIAN CYST(S)	NOT SPECIFIED (PRESENT)
HAHHARY GLANDS	

Appendix J (cont.): PATH	PATROLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	2 2
397 SEX: FENALE F DEATH: 754	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 248.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED(MODERATE) NOT SPECIFIED (PRESENT)
ADREMAL	NOT SPECIFIED(TRACE) (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	, 27467, (27, 27, 27, 27, 27, 27, 27, 27, 27, 27,

Appendix J (cont.): PATHOLOGY LETTERNAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 STUDY START DATE: 23-JAN-84	INDIVIDUAL DATA REPORT GLP83009
398 SEX: FEMALE DEATH: 754	E STATU TERMINA
GROSS ORGAN ORGAN	SERVATIONS >> SEVERITY GROSS FREE-TEXT COMMENTS
TISSUE / HISTOPATHOLOGIC FINDINGS	LEFT, 1.5CM DIAMETER. O B S E R V A T I O N S -> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED (TRACE)
SALIVARY GLAND	FOCAL (TRACE)
EXORBITAL LACRIMACINAR ATROPHY	MULTI-FOCAL(MILD)
HEART	NOT SPECIFIED(TRACE)
SPLEEN	FOCAL(TRACE)
- FOCUS OF CELLULAR ALTERATION - BASOPHILIC - NEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED(TRACE) Multi-focal(Mild)
PROGRESSIVE RENAL DISEASE	NOT SPECIFIED (MODERATE)
UTERUSOILATATION OF THE ENDOMETRIAL GLANDS	NOT SPECIFIED (PRESENT)
OVARIES	

Appendix J (cont.): PATHOI	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PAIN SERV GP SPECIES: RAT/FISCNER-344 SPECIES: RAT/FISCNER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
398/PRETEST# 398 SEX: FEMALE 14-FEB-86 STUDY DAY OF DEATH: 754	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 284.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
OVARIESPARA-OVARIAN CYST(S)	NOT SPECIFIED (PRESENT)
PANCREAS	FOCAL (TRACE)
MAMMARY GLANDS	NOT SPECIFIED(MODERATE)
ADREMALFOCUS OF CELLULAR ALTERATION, VACUOLATED	NOT SPECIFIED (TRACE) NOT SPECIFIED (PRESENT)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	FOCAL(TRACE) NOT SPECIFIED (PRESENT)

RCH STUDY STAR	DATA REPORT GLP83009 STUDY TYPE: CHR
EX: FEMALE H: 726	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 259.00 (GMS)
A GROSS ORGAN OB	A T 1 0 Y GROSS
SPLEEN ENLARGED (SPLENOMEGALY) MARKED LIVER ENLARGED SPLENOMEGALY) PRESENT PITUITARY GLAND ENLARGED	MARKED 7 X 2.5 X 1.5CM, LOBULAR MARGINS RESENT .5CM DIAMETER, DARK RED
C T I S S U C R O S C O P I C T I S S U TISSUE / HISTOPATHOLOGIC FINDINGS	E OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLANDS	NOT SPECIFIED(TRACE)
LACRIMAL GLAND	NOT SPECIFIED(MILD)
HEARTMEDIAL HYPERTROPHY OF MUSCULAR ARTERIES	MULTI-FOCAL(MILD)
LUNGSTARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	(PRESENT)
SPLEENCHRONIC -INFARCTION, CHRONIC INFARCTION, CHRONIC INFARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	NOT SPECIFIED(TRACE) (PRESENT)
LYMPH MODES	(PRESENT)
LIVER -NECROSIS -NEPATOCYTIC DEGENERATIVE CHANGES (NON-NECROTIC) -N-LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC	FOCAL(MILD) DIFUSE(MILD) (PRESENT)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	DATA REPORT GLP83009
ANIMAL NUMBER: 399/PRETEST= 399 SEX: FEMALE DOSE DATE OF DEATH: 726 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 104 TERMINAL BODY WEIGHT: 259.00 (GMS)
TISSUE / NISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
FIDNEYPROGRESSIVE RENAL DISEASE	. NOT SPECIFIED (MILD)
MAMMARY GLAMDS	. NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
ADREMAL	. NOT SPECIFIED(MILD)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	. NOT SPECIFIED(TRACE)
WHOLE BODYEUKEMIA	(PRESENT)

	Appendix	ט	(cont.):	:	PATHOLOGY		INDIVIDUAL	UAL A	ANIMAL	DATA		
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	UTE OF RESEARCH Serv GP 344		STUDY	~	INDIVIDUAL ANIMAL STUDY NUMBER: START DATE: 23-JAN-84	VIDUAL ANIMAL Study Number: Te: 23-jan-84	DATA REPORT GLP83009		STUDY	TYPE: CHRC	PRINTED: PAGE: DN.C/2 YR CA	PRINTED: 21-NOV-89 PAGE: 776 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
ANIMAL NUMBER: 400/PRETEST= Date of Death: 10-feb-86 study day of	400/PRETEST= 1-86 STUDY DAY O		400 SEX: FEMALE DEATH: 750	EMALE	DOSE GROUP: 3 STUDY WEEK OF	OUP: 3 EEK OF C	DOSE GROUP: 3 SACRI STUDY WEEK OF DEATH: 108	IFICE STA	E STATUS: SACRIFICED ITERMINAL BODY WEIGHT:	SACRIFICE STATUS: SACRIFICED MORIBUND 108 TERMINAL BODY WEIGHT: 209.	D MORIBUND T: 209.00 (GMS)	
ORGAN NAME KEYLORDS / PHRAS	C G R O S S O R KEYWORDS / PHRASES	O R .	ORGAN SES	55	S E R V A SEVERITY	T 1 O N S GROSS FREI	V A T I O N S >> ITY GROSS FREE-TEXT COMMENTS	COMMENTS	1 1 1 1 1 4 4	• • • • • •	8 8 9 9 2 4 4	• • • • • • • • • • • • • • • • • •
LIVER PITUITARY GLAND LIVER	PRONINENT LOBULAR MARKINGS ENLARGED MODULE(S)	BULAR M	ARKINGS		PRESENT PRESENT PRESENT	DARK RE MULTIPL	DARK RED, .9 X .6CM MULTIPLE, RAISED, LESS THAN 1CM	6CM	IAN 1CM			
A MISTOPATHOLOGIC FINDINGS	A M C R O S GIC FINDINGS	4 0 3	0	1 I S	SUE	OBSE DISTRIB	O B S E R V A T I O W S DISTRIBUTION (SEVERITY)	T 1 0 N S (SEVERITY)	SPECIAL	SPECIAL COMMENTS		
LACRIMAL GLAND	SUBACUTE TO CHRONIC	•	•		•		MULTI-FOCAL(TRACE)	E .				
HEART				:		NOT SPE	NOT SPECIFIED(TRACE)	ACE)				
LIVERHEPATITISFOCUS OF CELLULAR ALTERATIONBENIGN HYPERPLASTIC NODULE(S)	IS F CELLULAR ALTERATION - BASOPHI HYPERPLASTIC NODULE(S)	OPH1L1C				MULTI-FOCAL(FOCAL(TRACE) FOCAL(TRACE)	MULTI-FOCAL(MILD) FOCAL(TRACE) FOCAL(TRACE)	•				
KIDNEYPROGRESSIVE REWAL DISEASE	ISEASE		:	:	:	NOT SPE	NOT SPECIFIED(MILD)	60				
UTERUS	DILATATION OF THE ENDOMETRIAL		GLANDS	:		NOT SPE	NOT SPECIFIED (PRESENT)	RESENT)				
MOSE/TURBINATES	CELL INFILTRATIO	: .	MASAL CAVITY, SINUSES,	TY, SIN	USES,	INFILTR NOT SPE	INFILTRATE BILATERAL NOT SPECIFIED(MILD)	ERAL ADJA LD)	CENT NASC	ADJACENT NASO-LACRIMAL DUCTS	. DUCTS.	
-FOCUS OF CELLULAR ALTERATION, VACUOLA	LTERATION, VACU	OLATED		:		ONE	ADRENAL GLAND IS Specified(Trace)	D IS MISSING ACE)	5NI			
PITUITARY GLAND				:		(PRESENT)	^					

	Appendix	J (cont.):	PATHOLOGY	Y INDIVIDUAL ANIMAL DATA
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	E OF RESEARCH ERV GP 4	STUDY STAR	INDIVIDUAL ANÍMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	
ANIMAL MUMBER: 401/PRETEST= 4. DATE OF DEATH: 23-SEP-85 STUDY DAY OF	1/PRETEST= 1	401 SEX: FEMALE OF DEATH: 610	DOSE GROUP: 3 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FOUND DEAD STUDY WEEK OF DEATH: 88 TERMINAL BODY WEIGHT: 238.00 (GMS)
ORGAN NAME	G R O S S O R G KEYWORDS / PHRASES	85 O	S E R V A SEVERITY	T 1 0 N S >> GROSS FREE-TEXT COMMENTS
MANNARY GLAND Lungs Uterus	DISCOLORATION CONGESTED / RED BLACK DISCOLORATION	00 VIION	PRESENT BLA PRESENT BLA PRESENT ENT	BLACK PIGMENTED, LOWER LEFT ABDOMINAL REGION. ENTIRE UTERUS AND HORNS
PITUITARY GLAND Whole Body	ENLARGED Post Mortem Autoly	TOLYSIS.	PRESENT RED Moderate	RED/BLACK
TISSUE / HISTOPATHOLOGIC FINDINGS	M 1 C R O S C O	S	S U E O B	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
BRAIN			Foc	FOCAL (MODERATE)
LUNGS			FAS THE	SECTIONS OF LUNG WERE STAINED WITH PERIODIC ACID-SCHIFF, ACID FAST AND GOMORI'S METHENAMINE SILVER PROCEDURES. EXAMINATION OF THESE SPECIAL STAINS FAILED TO REVEAL THE CAUSE OF THE
-VASCULAR CONGESTION -PNEUMONIA, GRANULOMATOUS	sno		GRA DIF HUL	GRANULOMATOUS PNEUMONIA. DIFFUSE (PRESENT) MULTI-FOCAL(MILD)
SPLEEN	ION (RED PULP)		NOT	NOT SPECIFIED (PRESENT)
-BILE DUCTULE EPITHELIAL HYPERPLASIA AND/ -BEMIGN HYPERPLASTIC NODULE(S)	IL HYPERPLASIA A DOULE(S)	ND/OR CHOLANGIOFIBROSIS	:	NOT SPECIFIED(TRACE) MULTI-FOCAL(TRACE)
KIDMEY	ASE		TOM	NOT SPECIFIED(TRACE)

FOUR TREET 401 SEX. FEMALE DOSE GROUP: 3 SACRIFICE STATU COURT FINDINGS CONTRIBUTION (SEVERITY) / S DISTRIBUTION (SEVERITY) / S THE BLACK DISCOLORATION WOTHER FINDINGS FRANINED MICROSCOPICALLY. THE BLACK DISCOLORATION WOTHER FINDINGS EXAMINED MICROSCOPICALLY. TISSUE IS AUTOLYTIC TISSUE IS AUTOLYTIC TISSUE IS AUTOLYTIC TISSUE WOOFFATE HYPERPLAS TO DUCTS AND DUCTULES ACRIMAL DUCTS ONLY ONE ADRENAL GLAND IS ANTOLYTIC TISSUE S HOOFFATE) MOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT) TISSUES. THIS PRECLUDED EVERTHED FROM THE	Appendix J (cont.): PJ of RESEARCH RV GP STUDY START DA	INDIVIDUAL ANIMAL DATA DATA REPORT GLP83009 STUDY TYPE: CHR
ANDS ANDS SIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE ON (ECTASIA) OF DUCTS AND DUCTULES FLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ES, MASO-LACRIMAL DUCTS GLAND MA GE IC N.	401 SEX: FEMALE DAY OF DEATH: 610	OUP: 3 SACRIFICE STATUS: FOUND DEAD EEK OF DEATH: 88 TERMINAL BODY WEIGHT: 238.00 (GMS)
ANDS SIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE OM (ECTASIA) OF DUCTS AND DUCTULES NATES FLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ES, MASO-LACRIMAL DUCTS GLAND MA GE IC M.	- -	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
ANDS SIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE ON (ECTASIA) OF DUCTS AND DUCTULES FLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ES, NASO-LACRIMAL DUCTS GLAND MA GE IC N.		THE BLACK DISCOLORATION NOTED GROSSLY IS PROBABLY DUE TO POST-MORTEM HYPOSTATIC CONGESTION AND EARLY AUTOLYTIC CHANGE. THERE ARE NO OTHER FINDINGS IN THE THREE SECTIONS OF UTERUS EXAMINED MICROSCOPICALLY.
ANDS SIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE ON (ECTASIA) OF DUCTS AND DUCTULES NATES FLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ES, NASO-LACRIMAL DUCTS GLAND GG GG IC N.		
ANDS SIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE ON (ECTASIA) OF DUCTS AND DUCTULES NATES FLAMMATORY CELL INFILTRATION, MASAL CAVITY, SINUSES, ES, NASO-LACRIMAL DUCTS GLAND NA GE IC N.		TISSUE IS AUTOLYTIC
SIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE ON (ECTASIA) OF DUCTS AND DUCTULES NATES FLAMMATORY CELL INFILTRATION, NASAL CAVITY, SINUSES, ES, NASO-LACRIMAL DUCTS GLAND MA GE IC N.		TISSUE IS AUTOLYTIC
FLAMMATORY CELL INFILTRATION, MASAL CAVITY, SINUSES, ES, MASO-LACRIMAL DUCTS GLAND GE IC N.	MD/OR HYPERTROPHY OF THE ACINAR TISSUE (CTASIA) OF DUCTS AND DUCTULES	DISCOLORATION OF THE MAMMARY TISSUE NOTED GROSSLY IS PROBABLY DUE TO POST-MORTEM HYPOSTATIC CONGESTION AND EARLY AUTOLYTIC CHANGE. HODERATE HYPERPLASIA OF MAMMARY TISSUE IS ALSO PRESENT DIFFUSE(MODERATE) NOT SPECIFIED (PRESENT)
GLAND MA GE GE 1C M.	TORY CELL INFILTRATION, MASAL CAVITY, SINUSES, SO-LACRIMAL DUCTS	INFILTRATE: SUPPURATIVE, BILATERAL ADJACENT NASO-LACRINAL DUCTS Not specified(moderate)
GE GE GE GE GE GE GE GE GE GE GE GE GE G		ONLY ONE ADRENAL GLAND IS AVAILABLE FOR EXAMINATION.
IC N.		PRESENT) Not specified (present)
		TISSUE IS AUTOLYTIC
		AUTOLYTIC CHANGE VARYING FROM MILD TO SEVERE IS PRESENT IN MOST TISSUES. THIS PRECLUDED EVALUATION OF SEVERAL TISSUES FROM THE GRASTRO-INTESTINAL TRACT AND THE EYES. WHERE AUTOLYSIS WAS SEVERE ENOUGH TO INTERFERE WITH HISTOLOGIC EVALUATION, TISSUES WERE CODED AS AUTOLYTIC AND NO OTHER FINDINGS WERE RECORDED.

Appendix J ((cont.): PA:	PATHOLOGY INDIVIDUAL ANIMAL DATA
	INDI TART DA	DATA REPORT GLP83009
UMBER: 402/PRETEST= DEATH: 14-FEB-86 STUDY DAY OF	402 SEX: FEMALE DOS DEATH: 754 STU	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 247.00 (GMS)
A G R O S S C KEYLORDS / PHRAS	R G A M O B S E R V I	
PITUITARY GLAND DISCOLORATION OVARIES PARA-OVARIAN CYST(S) UTERUS POLYP	PRESENT PRESENT PRESENT	NT FOCAL, RED, .1CM DIAMETER NT LEFT,1.5CM DIAMETER NT RIGHT HORN, DISTAL, 1CM LONG
TISSUE / HISTOPATHOLOGIC FINDINGS	C TISSUE	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
EXORBITAL LACRIM		MULTI-FOCAL(TRACE)
HEARTCARDIOMYOPATHY		NOT SPECIFIED(TRACE)
LUNGS		NOT SPECIFIED(TRACE)
LYMPH NODES	ROPHAGOCYTOSIS WITHIN	RBC'S AND HEMOSIDERIN PRESENT ONLY IN A CERVICAL NODE. In not specified (present)
- FOCUS OF CELLULAR ALTERATION - BASOPHILIC - HEPATOCYTE COALESCING MICROVESICULAR (FATT NECROSIS AND MIMERALIZATION	LIC FATTY) CHANGE LEADING TO	MULTI-FOCAL(MARKED)
KIDNEYPROGRESSIVE REMAL DISEASE		NOT SPECIFIED(MILD)
UTERUSENDOMETRIAL STROMAL POLYP		NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATH	PATHOLOGY INDIVIDUAL ANIMAL DATA
402/PRETEST= 402 SEX: FEMALE -FEB-86 STUDY DAY OF DEATH: 754	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 247.00 (GMS)
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T T O M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
OVARIES	. NOT SPECIFIED (PRESENT)
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	
ADREMAL	. NOT SPECIFIED(TRACE)
PITUITARY GLAND	(PRESENT)
EYES & OPTIC N	FOCAL(TRACE) NOT SPECIFIED (PRESENT) FOCAL (PRESENT)

App. LETTERMAN ARMY INSTITUTE OF R. DIV OF RES SUPP, PATH SERV GP	Appendix LETTERMAN ARMY INSTITUTE OF RESEARCH SIV OF RES SUPP, PATH SERV GP	J (cont.):	PATHOLOGY INDIVIDUAL ANIHAL STUDY HUMBER: START DATE: 23-JAN-84	INDIVIDUAL AND DATA REPORT GLP83009	PRINI PA PA NIC/2 Y
ANIMAL WUMBER: 403/PRETEST DATE OF DEATH: 14-FEB-86 STUD	. 94	SEX: FEN	DOSE GROUP: 3 STUDY WEEK OF	OUP: 3 SACRIFICE STATUS: FINAL SACRIFICE EEK OF DEATH: 108 TERMINAL BODY WEIGHT:	RIFICE T: 252.00 (GMS)
ORGAR WAME	<pre>< G R O S O R KEYWORDS / PHRASES</pre>	O R G A N O B	S E R V A SEVERITY	T I G	
LYMFN NODES PITUITARY GLAND LIVER	DISCOLORATION ENLARGED NODULE(S)	:	PRESENT .	CERVICAL. DARK, .SCH DIAMETER MEDIAL LOBE, .SCH DIAMETER.	
TISSUE / HISTOPATHOLO	TISSUE / HISTOPATHOLOGIC FINDINGS	0 1 d 0	S C E	O B S E R V A T I O N S >> O ISTRIBUTION (SEVERITY) / SPECIAL COMMENTS	S -
-CARDIOMYOPATHY	OMYOPATHY			NOT SPECIFIED(TRACE)	
-MINERALIZATION	UNGS			NOT SPECIFIED(TRACE)	
SPLEEK	PLEEM			NOT SPECIFIED (PRESENT)	
LYMPH MODES	MODES	ERYTHROPHAGOCYTOSIS	S WITHIN	RBC'S AND HEMOSIDERIN PIGNENT ARE FAIRLY EXTENSIVE IN CERVICAL AND MEDIASTINAL NODES AND PROBABLY ACCOUNTED DISCOLORATION NOTED GROSSLY.	EXTENSIVE IN BOTH ABLY ACCOUNTED FOR THE
MEDULLARY SINUSES LIVER	LARY SINUSES ITIS OF CELLULAR ALTERATION - BASOPHILIC M HYPERPLASTIC MODULE(S)	BASOPHILIC		MULTI-FOCAL(TRACE) FOCAL(TRACE) NOT SPECIFIED(TRACE)	
KIDNET	IDNET			NOT SPECIFIED(MILD)	
HAMMARY GLANDS - -HYPERPLASIA AND	ANMARY GLANDSHYPERPROPHY OF THE ACI	E ACINAR TISSUE	:	HOT SPECIFIED(HILD)	

Appendix	ם	(cont.):	r.):	PAT	HOLOGY	INDIV	IDUAL	PATHOLOGY INDIVIDUAL ANIMAL DATA	DATA		
LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP SPECIES: RAT/FISCHER-344		ST	IDY STAG	I DA T	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY START DATE: 23-JAN-84	L DATA RE : GLP8300	PORT 9	STUDY	PRINTED: 21-NOV-89 PAGE: 782 STUDY TYPE: CHRONIC/2 YR CARCINGENIC	PRINTED: 21-NOV-89 PAGE: 782 C/2 YR CARCINGENIO	NOV-89 NOGENIC
ANIMAL WUMBER: 403/PRETEST= 403 SEX: FEM DATE OF DEATH: 14-FEB-86 STUDY DAY OF DEATH: 754		SEX:	403 SEX: FEMALE DEATH: 754	S	DOSE GROUP: 3 STUDY WEEK OF DEATH:	SA: DEATH: 1	CRIFICE S	TATUS: FIN		2.00 (GMS)	
TISSUE / HISTOPATHOLOGIC FINDINGS	۵ 0	5	-	S C E	O B S DISTRI	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPE	T I O N S SEVERITY)	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS		1 1 1 1 1 1 1 1 1 1	•
MAMMARY GLANDS	CTULE					NOT SPECIFIED (PRESENT)	(PRESENT)				
PITUITARY GLAND					(PRESENT)	Ę					
EYES & OPTIC N	NERAL AT IBL	IZATIC E WITH	RALIZATION, SCLERA IBLE WITH CATARACT		R TON SE	NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)	(PRESENT)				

### ##################################	Appendix J (cont.): PA LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP SPECIES: RAT/FISCHER-344	.nt.): PATHOLOGY INDIVIDUAL ANIMAL DATA INDIVIDUAL ANIMAL DATA REPORT STUDY WUMBER: GLP83009 STUDY START DATE: 23-JAN-84 STUDY START DATE: 23-JAN-84
AME KEYWORDS / PHRASES SEVERITY GROSS FREE-TE PARA-OVARIAN CYST(S) PRESENT LEFT CAN I C R O S C O P I C T I S S U E DISTRIBUTION WOT SPECIFIED MOT SPECIFIED WOT SPECIFIED OVAPIAN CYST(S) GLANDS THE ANATOMY OF CELLULAR ALTERATION - JSINOPHILIC CELLS NOT SPECIFIED OVARIAN CYST(S) GLANDS THE ANATOMY PRACINAR TISSUE REVA T 1 0 N S S S FREE-TE OF SEVERITY GROSS FREE-TE DISTRIBUTION NOT SPECIFIED OF CELLULAR ALTERATION - JSINOPHILIC CELLS NOT SPECIFIED OVARIAN CYST(S) THE ANATOMIC OTHER CYST(S) OTHER CYST	PRETEST 404 SEX: FEMALE STUDY DAY OF DEATH: 667	ICE STATUS: SACRIFICED MORI TERMINAL BODY WEIGHT:
CULAR CYST(S) CLAND C	C G R O S S O R G A N O B KEYWORDS / PHRASES PARA-OVARIAN CYST(S)	V A T 1 O N S >> IITY GROSS FREE-TEXT COMMENTS
L GLAMD HMATION, SUBACUTE TO CHRONIC MOT SPECIFIED MOT SPECIFIED MOT SPECIFIED OF CELLULAR ALTERATION SINOPHILIC CELLS NOT SPECIFIED SSIVE RENAL DISEASE CULAR CYST(S) MOT SPECIFIED MOT SPECIFIED NOT SPECIFIED AT NECROPSY. AT NECROPSY. (PRESENT)	0 S C O P I C T I S	OBSERVATIONS DISTRIBUTION (SEVERITY) /
OF CELLULAR ALTERATION - JSINOPHILIC CELLS OF CELLULAR ALTERATION - JSINOPHILIC CELLS NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED AT NECROPSY.	SUBACUTE TO CHRONIC	NOT SPECIFIED(MILD)
OF CELLULAR ALTERATION - JSINOPHILIC CELLS NOT SPECIFIED ESSIVE RENAL DISEASE CULAR CYST(S) OVARIAN CYST(S) GLANDS AT NECROPSY. AT NECROPSY. PLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE (PRESENT)	DIOMYOPATHY	
ESSIVE RENAL DISEASE LADEN MACROPH CULAR CYST(S) DVARIAN CYST(S) GLANDS THE ANATOMIC AT NECROPSY. PLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE (PRESENT)	JS OF CELLULAR ALTERATION - 1 SINOPHILIC CELLS	NOT SPECIFIED(MILD)
CULAR CYST(S) OVARIAN CYST(S) GLANDS OT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED AT MECROPSY. PLASIA AND/OR HYPERTROPHY OF THE ACINAR TISSUE (PRESENT)	RESSIVE RENAL DISEASE	NOT SPECIFIED (TRACE)
CYST(S) CYST(S) NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NOT SPECIFIED NA (PRESENT)		
ND/OR HYPERTROPHY OF THE ACINAR TISSUE (PRESENT)	-FOLL'CULAR CYST(S) -PARA-DVARIAN CYST(S)	LADEM MACROPHAGES. NOT SPECIFIED (PRESENT) NOT SPECIFIED (PRESENT)
	ND/OR HYPERTROPHY OF THE ACINAR TISSUE	
	PITUITARY GLAND	NOT SPECIFIED (PRESENT)

Appendix J (cont.): PATH(PATHOLOGY INDIVIDUAL ANIMAL DATA
H STUDY START	DATA REPORT GLP83009
105 SEX: FEMALE DEATH: 754	: =
ORGAN NAME < GROSS ORGAN OBSEVATIVE SEVENTY SPLEEN TRACE (SPLENOMEGALY)	A T I O N S >> CROSS FREE TEXT COMMENTS
ROUNDED EDGES <- M I C R D S C D P I C T I S S / HISTOPATHOLOGIC FINDINGS	O B S E R V A T 1 D M S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
HEART	. NOT SPECIFIED(MILD)
LUNGS	NOT SPECIFIED(TRACE) (PRESENT)
SPLEEN	FOCAL(M1LD) (PRESENT)
-FOCUS OF CELLULAR ALTERATION - BASOPHILIC -NECROSIS -CYSTIC DEGENERATION -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- LARGE GRANULAR LYMPHOCYTE LEUKEMIA, METASTATIC -N- REPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	MULTI-FOCAL(TRACE) FOCAL(TRACE) NOT SPECIFIED (PRESENT) (PRESENT) MULTI-FOCAL(MILD)
KIDNEYPROGRESSIVE REWAL DISEASE	. NOT SPECIFIED(TRACE)
"TERUS	. HULTI-FOCAL (PRESENT)
MAMMARY GLANDS	

LETTERMAN ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATH SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 T DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
405/PRETEST= 405 SEX: FEMALE 4-FEB-86 STUDY DAY OF DEATH: 754	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 272.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED(TRACE) NOT SPECIFIED (PRESENT)
NOSE/TURBINATES	INFILTRATE IS BILATERAL ADJACENT NASO-LACRIMAL DUCTS. Not specified(mild)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC N	FOCAL (TRACE)
WHOLE BODY	(PRESENT)

J (CONT.): PAT! INDIVID STUDY START DATE:	PATHOLOGY INDIVIDUAL ANIMAL DATA DIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 STUDY TYPE: CHRONIC/2 YR CARCINGENIC
06 SEX: FEMALE DOSE DEATH: 754 STUD	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 225.00 (GMS)
C G R O S S O R G A N O B KEYLORDS / PHRASES	S E R V A T I O N S >> SEVERITY GROSS FREE-TEXT COMMENTS
SKIN SUBCUTANEOUS MASS PRESENT PITUITARY GLAND DISCOLORATION	CLITORAL GLAND, 2.5 X 2CM FOCAL, RED, .1CM DIAMETER
TISSUE / MISTOPATHOLOGIC FINDINGS	O B S E R V A T I O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
THYROID GLAWDS	(PRESENT)
HEART	NOT SPECIFIED (TRACE)
SPLEEN	NOT SPECIFIED (PRESENT)
LYMPH NODES	RBC'S AND HEMOSIDERIN ARE LIMITED TO CERVICAL NODES. Not specified (present)
LIVER -BILE DUCTULE EPITHELIAL HYPERPLASIA AND/OR CHOLANGIOFIBROSIS -HEPATITIS -HEPATOCYTE COALESCING MICROVESICULAR (FATTY) CHANGE LEADING TO NECROSIS AND MINERALIZATION	NOT SPECIFIED(MILD) MULTI-FOCAL(MILD) MULTI-FOCAL(MODERATE)
KIDHEY	NOT SPECIFIED (MILD)
SKIN	(PRESENT)
MAMMARY GLANDS	

Appendix J (cont.): PATHO	PATHOLOGY INDIVIDUAL ANIMAL DATA
LETTERMAM ARMY INSTITUTE OF RESEARCH DIV OF RES SUPP, PATM SERV GP STUDY NUMBER: SPECIES: RAT/FISCHER-344 SPECIES: RAT/FISCHER-344	INDIVIDUAL ANIMAL DATA REPORT STUDY NUMBER: GLP83009 F DATE: 23-JAN-84 STUDY TYPE: CHRONIC/2 YR CARCINGGENIC
ANIMAL NUMBER: 406/PRETEST= 406 SEX: FEMALE DOSE GROUP: 3 DATE OF DEATH: 14-FE8-86 STUDY DAY OF DEATH: 754 STUDY WEEK OF	DOSE GROUP: 3 SACRIFICE STATUS: FINAL SACRIFICE STUDY WEEK OF DEATH: 108 TERMINAL BODY WEIGHT: 225.00 (GMS)
TISSUE / HISTOPATHOLOGIC FINDINGS	OBSERVATIONS >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
MAMMARY GLANDS	NOT SPECIFIED(MILD) NOT SPECIFIED (PRESENT)
ADREMAL	FOCAL (TRACE)
PITUITARY GLAND	NOT SPECIFIED (PRESENT)
EYES & OPTIC N.	
-LEMTICULAR DEGENERATIVE CHANGES COMPATIBLE WITH CATARACT	WERE PROBABLY NOT EVIDENT ON GROSS EXAMINATION.

Appendix J (cont.):	t.): PATHOLOGY	LOGY INDIVIDUAL ANIMAL DATA
TUTE OF RESEARCH H SERV GP -344	INDIVIDUAL ANIMAL STUDY NUMBER: STUDY START DATE: 23-JAN-84	GLP83009 STU
AL MUNBER: 407/PRETEST OF DEATH: 23-APR-85 STUDY DAY OF	107 SEX: FEMALE DOSE GI DEATH: 457 STUDY	DOSE GROUP: 3 SACRIFICE STATUS: SACRIFICED MORIBUND STUDY WEEK OF DEATH: 66 TERMINAL BODY WEIGHT: 216.00 (GMS)
ORGAN NAME KEYWORDS / PHRASES	OBSERVA SEVERITY	GROSS FREE-TEXT COMMENTS
	PRESERVE	3 X 4MM COVERED BY BLACK DRY CRUSTY MATERIAL ON VENTRAL MIDLINE 1CM ANTERIOR TO VAGINA
TISSUE / MISTOPATHOLOGIC FINDINGS	1 S S U E	O B S E R V A T 1 O N S >> DISTRIBUTION (SEVERITY) / SPECIAL COMMENTS
LACRIMAL GLAND		NOT SPECIFIED (MILD)
HEARTCARDIOMYOPATHY		NOT SPECIFIED(MILD)
LUNGS		. ALVEOLAR HEMORRHAGE IS PROBABLY DUE TO ASPIRATION OF BLOOD . At terminally Not specified (present)
KIDNEYPROGRESSIVE RENAL DISEASE		NOT SPECIFIED(TRACE)
SKIN	. I E D	. KERATOACANTHOMA INVOLVES THE CLITORAL GLAND. (PRESENT)
MOSE/TURBINATES	IASAL CAVITY, SINUSES,	. INFILTRATE: BILATERAL, SUPPURATIVE, ADJACENT NASO-LACRIMAL Ducts. Not specified(moderate)
ADREMAL		NOT SPECIFIED (PRESENT)
EYES & OPTIC M		TISSUE IS MISSING NUMBEROUS ARTIFACTS INDUCED DURING EMBEDDING AND SECTIONING MAKE HISTOLOGIC EVALUATION IMPOSSIBLE.



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